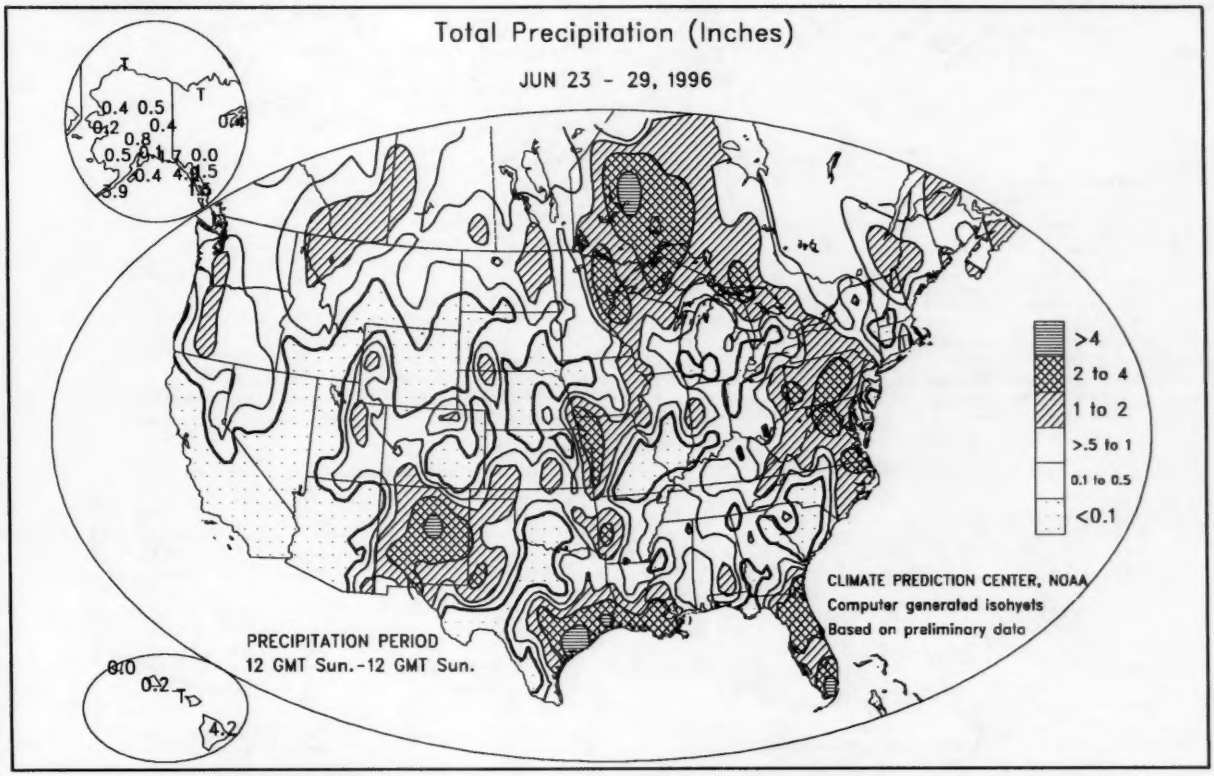
Volume 83, No.26 July 2, 1996

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS
June 23 - 29, 1996

A multi-layered tropical plume--including moisture sheared from eastern Pacific Hurricane Alma--streamed northward into **New Mexico** and **western Texas**, sparking thunderstorms that boosted topsoil moisture and dented the 9-month drought. Meanwhile, the jet stream took an unusual summer dip across the **West**, focusing showers as far south as **central California** and holding temperatures as much as 11°F below normal. In contrast, hot weather dominated the **Central and Southeastern States**, with departures reaching +7°F in **Kansas**. From the **Midwest** to the **Middle Atlantic region**, strong early-week thunderstorms yielded to several cool, dry days before hot weather returned toward week's end. Elsewhere, heavy rainfall

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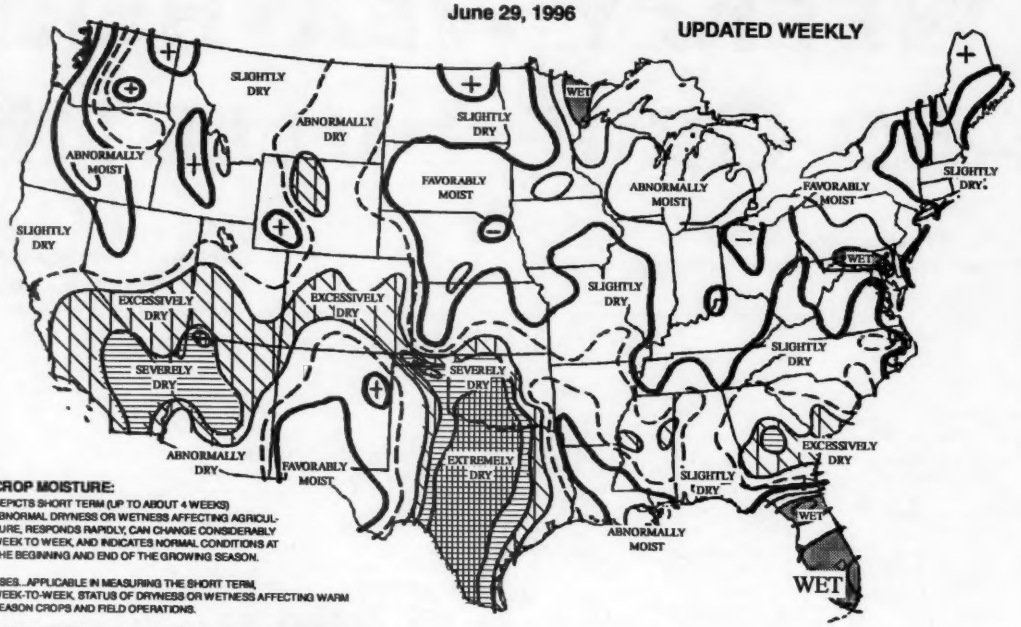
CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

June 29, 1996

UPDATED WEEKLY



CROP MOISTURE:

DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES...APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

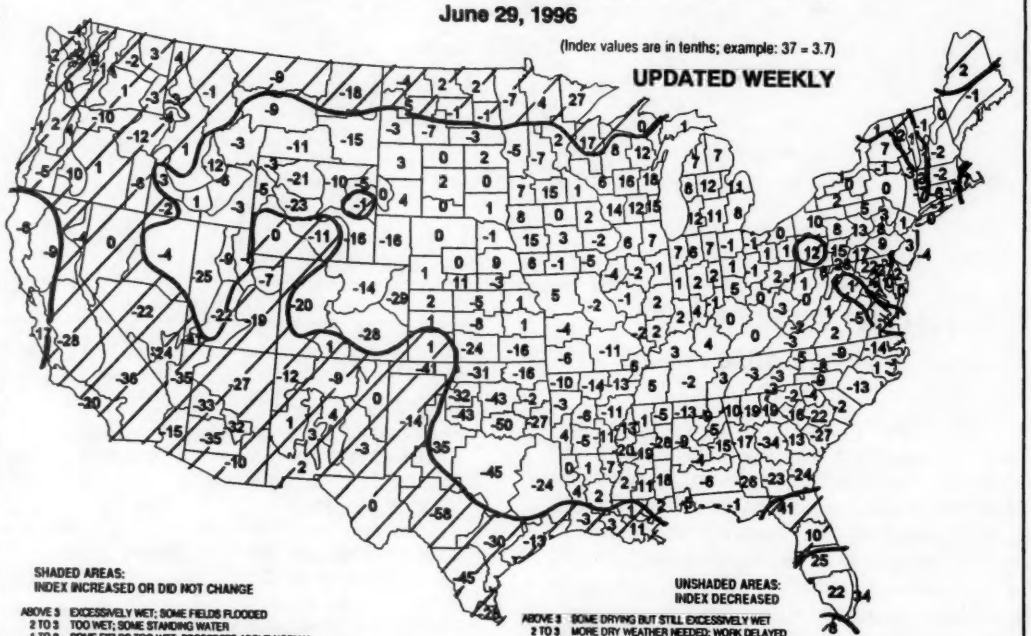
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

June 29, 1996

(Index values are in tenths; example: 37 = 3.7)

UPDATED WEEKLY



SHADED AREAS:
INDEX INCREASED OR DID NOT CHANGE

ABOVE 3	EXCESSIVELY WET; SOME FIELDS FLOODED
2 TO 3	TOO WET; SOME STANDING WATER
1 TO 2	SOME FIELDS TOO WET; PROSPECTS ABOVE NORMAL
0 TO 1	MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2	SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3	DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4	SEVERE DRYNESS CONTINUES; MORE RAIN URGENTLY NEEDED
BELOW -4	NOT ENOUGH RAIN; STILL EXTREMELY DRY

UNSHADED AREAS:
INDEX DECREASED

ABOVE 3	SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3	MORE DRY WEATHER NEEDED; WORK DELAYED
1 TO 2	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1	TOPSOIL MOISTURE SHORT; GERMINATION SLOW
-1 TO -2	ABNORMALLY DRY; PROSPECTS DETERIORATING
-2 TO -3	EXCESSIVELY DRY; YIELD PROSPECTS REDUCED
-3 TO -4	POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
BELOW -4	EXTREMELY DRY; MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

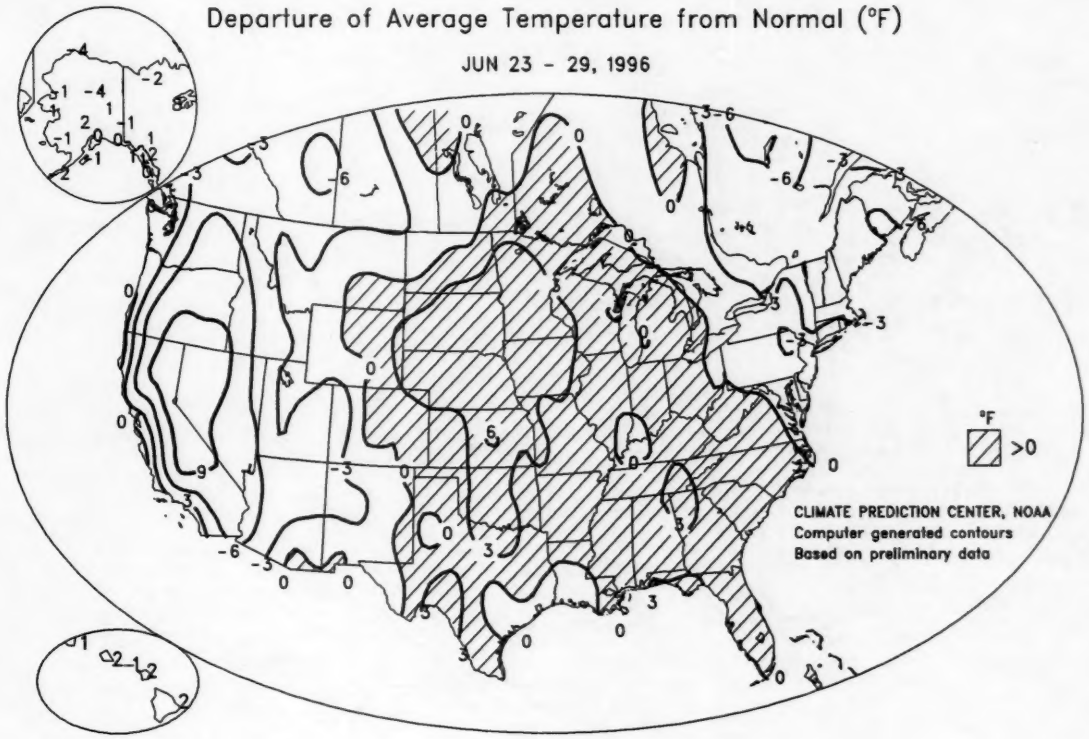
(Continued from front cover)
was scattered along the **western Gulf Coast**, over **Florida**, in the **Central States**, and across the **Nation's northern tier**.

Albuquerque, NM netted 2.13 inches of rain during the week. An additional 0.61 inches accumulated on June 30, boosting their June total to 2.86 inches, second-highest on record and nearly 88 percent (%) of their January-June total. Similarly, **El Paso, TX** wound up with a June total of 2.36 inches, 75% of their year-to-date total. Weekly rainfall in **New Mexico** reached 6.64 inches in **Moriarty**, 3.62 inches in **Ruidoso**, and 3.25 inches in **Las Vegas**. Nevertheless, long-term drought continued across the **Nation's southwestern quadrant**. In **San Antonio, TX**, June rainfall was 2.12 inches (56% of normal), leaving their January-June total (5.26 inches; 34% of normal) at the lowest level since 1925. Farther west, **Tucson, AZ** recorded a 107th consecutive day without measurable rainfall on June 29.

Elsewhere around the country, locally heavy rainfall produced a menagerie of records. A 3.11-inch total in **Pittsburgh, PA** on June 24 was their greatest single-day total since October 15, 1954. Damaging winds and several tornadoes accompanied the storms across the **Midwest** and **Northeast** on June 23-24. On Tuesday, a slow-moving thunderstorm over **Gove, KS** dumped 7.50 inches of rain in 5 hours, bettering their single-day mark of 4.53 inches set on August 19, 1949. In **California**, rare late-June rainfall set daily records in **Stockton** (0.03 inches on June 26) and **Fresno** (0.06 inches on June 27).

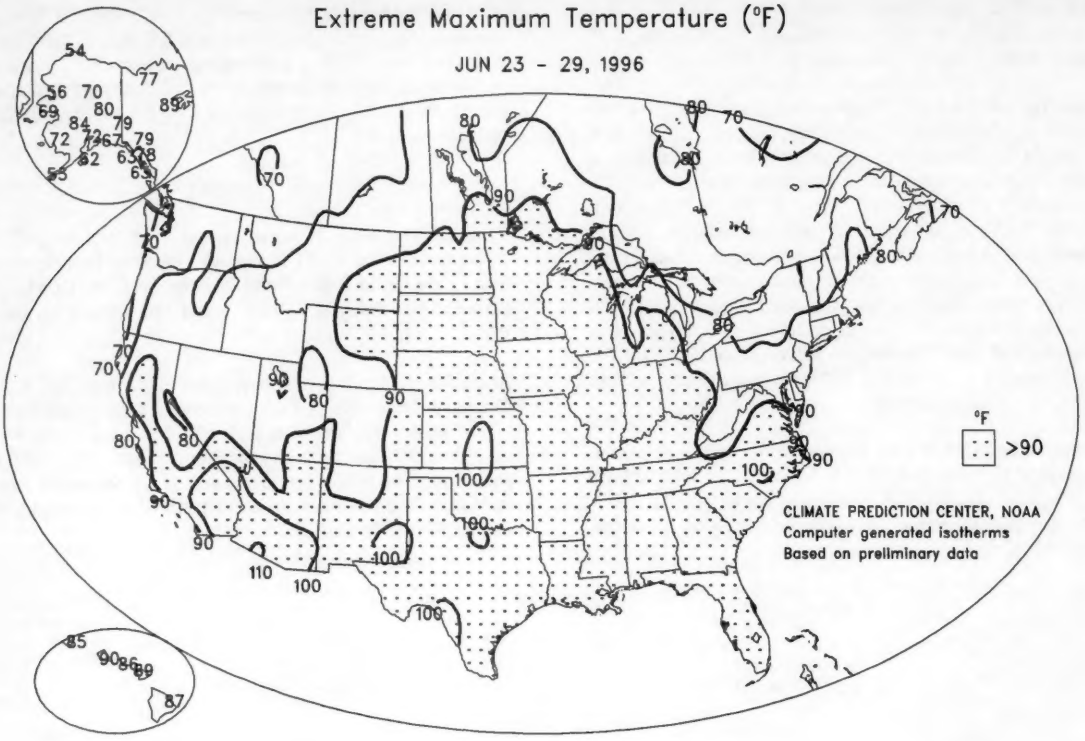
Cool weather accompanied the unsettled conditions in the **West**. On Tuesday, highs climbed only to 52°F in **Reno, NV** and 72°F in **Fresno**. Two days later, daily-record lows included 51°F in **Bakersfield, CA** and 33°F in **Ely, NV**. Meanwhile, daily-record lows in the **Great Lakes States** included 38°F (on Tuesday) in **International Falls, MN** and 47°F (on Thursday) in **Scranton, PA**.

After midweek, however, heat surged into the **Central States**. On Thursday, **International Falls** registered a daily-record high of 92°F. Farther south, late-week, triple-digit heat spread as far north as **Pierre, SD** (101°F on Thursday) and **Salina, KS** (103°F on Saturday). Heat peaked before midweek in the **Southeast**, where on Monday, highs soared to 103°F in **Fayetteville (Ft. Bragg), NC** and 100°F in **Columbia, SC**.



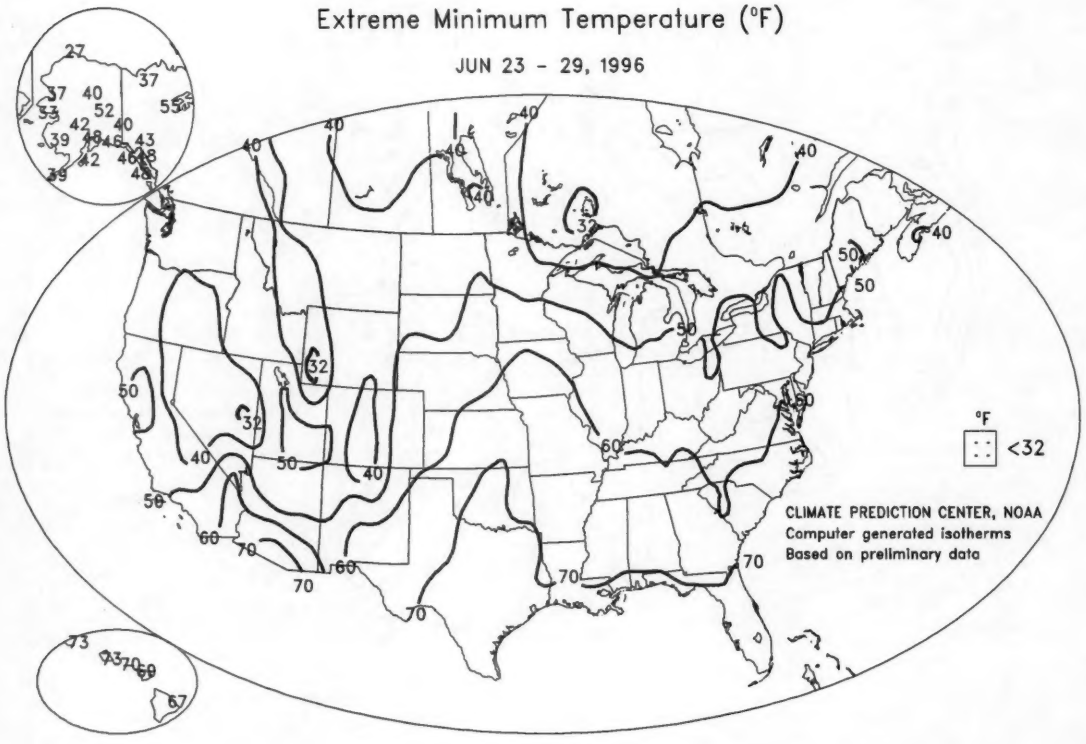
Extreme Maximum Temperature (°F)

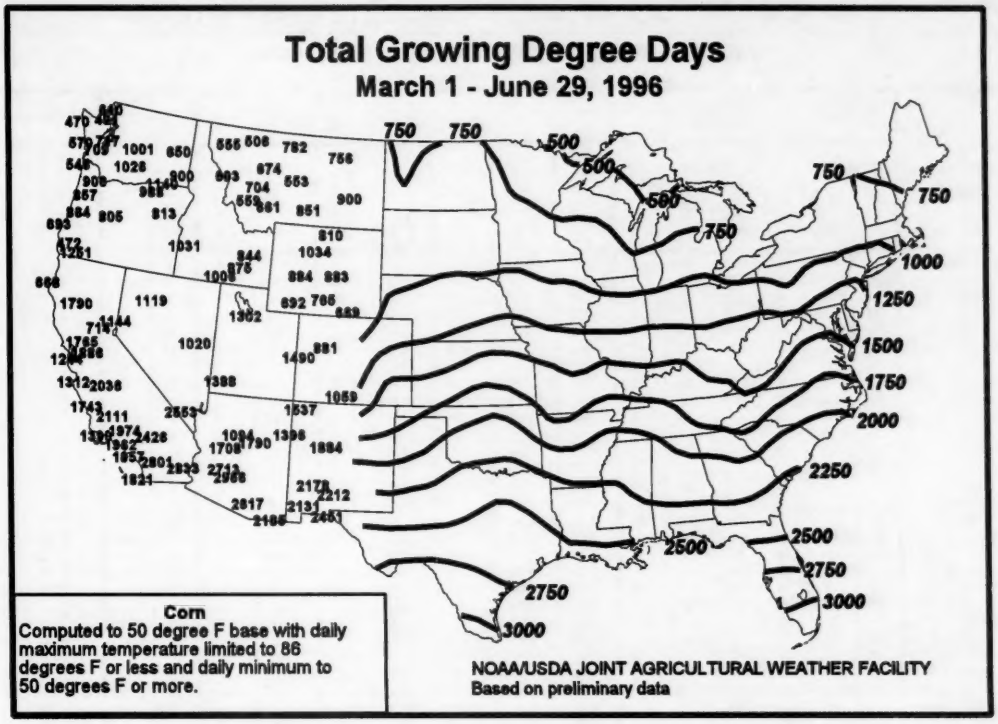
JUN 23 - 29, 1996

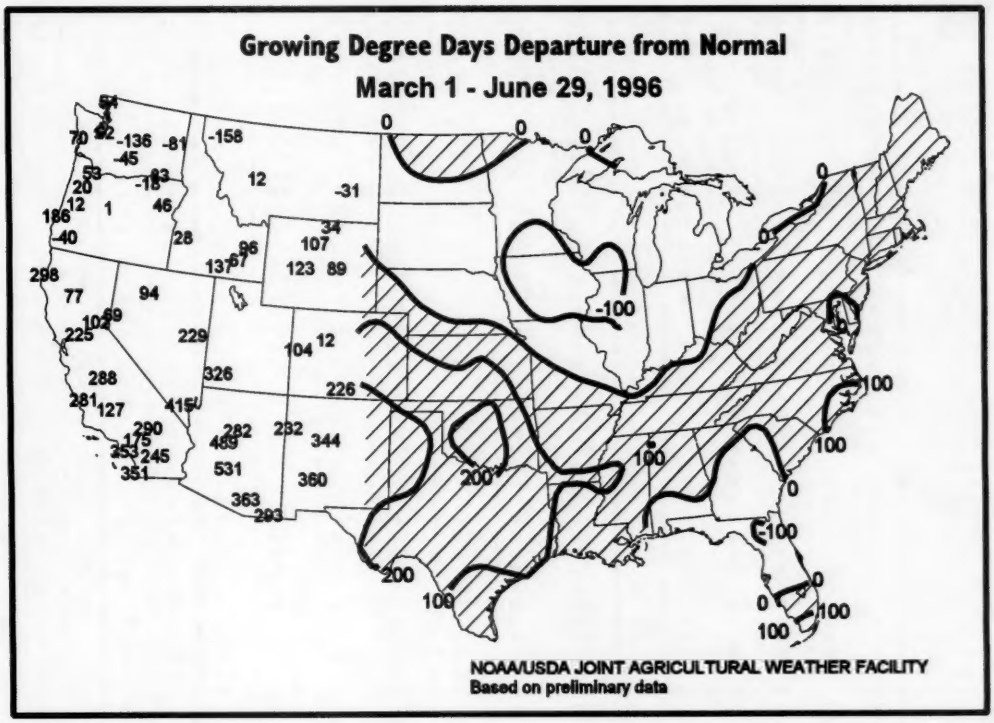


Extreme Minimum Temperature (°F)

JUN 23 - 29, 1996




Total Growing Degree Days
March 1 - June 29, 1996
750
500
1000
1250
1500
1750
2000
2250
2500
2750
3000
Corn
Computed to 50 degree F base with daily maximum temperature limited to 86 degrees F or less and daily minimum to 50 degrees F or more.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Growing Degree Days Departure from Normal
March 1 - June 29, 1996
0
-100
100
200
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

National Weather Data for Selected Cities

Weather Data for the Week Ending June 29, 1996

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL	BIRMINGHAM	91	70	94	64	80	2	0.02	-0.91	0.02	1.92	54	33.04	112	92	47	6	0	1	0
	MOBILE	93	72	96	71	83	1	0.00	-1.25	0.00	5.08	104	36.84	116	93	46	7	0	0	0
	MONTGOMERY	93	71	95	66	82	3	0.00	-1.26	0.00	1.88	39	32.98	110	92	46	7	0	0	0
AK	ANCHORAGE	63	51	72	48	57	0	0.05	-0.26	0.03	0.40	36	3.63	75	82	48	0	0	2	0
	BARROW	38	30	54	27	34	-4	0.02	-0.09	0.01	0.07	26	0.76	76	96	74	0	6	2	0
	FAIRBANKS	72	53	80	52	63	1	0.43	0.05	0.28	1.40	105	3.85	107	83	37	0	0	4	0
	JUNEAU	62	52	78	48	57	2	--	--	--	--	--	--	--	92	67	0	0	-	-
	KODIAK	58	47	62	42	51	-1	0.38	-0.61	0.13	2.19	47	19.95	63	91	71	0	0	4	0
	NOME	58	42	69	33	50	2	0.22	-0.12	0.14	0.75	69	6.47	148	90	53	0	0	2	0
AZ	PHOENIX	101	74	107	71	88	-3	0.00	-0.07	0.00	0.00	0	1.81	67	40	11	7	0	0	0
	PRESCOTT	86	53	97	48	69	-1	0.00	-0.28	0.00	0.04	9	2.23	33	40	18	1	0	0	0
	TUCSON	100	73	104	69	86	0	0.00	-0.19	0.00	0.00	0	1.13	38	53	15	7	0	0	0
	YUMA	90	78	90	70	87	-3	0.00	-0.02	0.00	0.00	0	0.61	62	39	25	1	0	0	0
AR	FORT SMITH	90	72	93	71	81	2	0.06	-0.62	0.05	3.41	105	21.77	103	97	58	5	0	2	0
	LITTLE ROCK	--	--	--	--	--	--	1.19	0.32	--	3.22	102	21.26	84	--	--	-	-	-	-
CA	BAKERSFIELD	83	57	93	51	70	-11	0.00	-0.02	0.00	0.00	0	4.20	110	69	27	2	0	0	0
	EUREKA	64	51	65	48	58	1	0.05	-0.01	0.03	0.05	10	29.44	141	88	59	0	0	2	0
	FRESNO	83	59	95	54	71	-8	0.08	0.06	0.06	0.08	114	8.14	117	85	33	2	0	2	0
	LOS ANGELES	74	59	85	56	66	-1	0.00	0.00	0.00	0.00	0	8.72	113	86	57	0	0	0	0
	REDDING	83	56	98	52	70	-9	0.10	0.02	0.04	0.10	19	27.46	146	79	26	1	0	3	0
	SACRAMENTO	82	58	95	53	69	-5	0.00	-0.03	0.00	0.00	0	15.86	149	85	34	2	0	0	0
	SAN DIEGO	71	63	82	62	67	-1	0.00	0.00	0.00	0.00	0	3.87	63	78	60	0	0	0	0
	SAN FRANCISCO	70	53	85	50	61	-1	0.00	-0.03	0.00	0.00	0	18.46	151	86	53	0	0	0	0
CO	DENVER	88	55	93	47	71	1	0.37	-0.02	0.37	1.81	94	4.98	61	84	24	2	0	1	0
	GRAND JUNCTION	86	58	93	51	71	-5	0.49	0.35	0.30	0.57	86	4.70	97	81	19	2	0	3	0
	PUEBLO	91	57	97	49	74	0	0.00	-0.34	0.00	1.34	112	5.07	107	87	23	5	0	0	0
CT	BRIDGEPORT	77	60	84	57	69	-2	0.25	-0.58	0.12	3.44	103	26.35	124	87	43	0	0	3	0
	HARTFORD	79	56	83	51	67	-4	0.05	-0.78	0.05	2.32	84	24.59	112	85	38	0	0	1	0
DC	WASHINGTON	86	68	90	64	77	-1	0.78	-0.02	0.74	2.74	84	21.48	117	86	47	1	0	2	1
FL	PANAMA CITY	92	75	96	72	84	3	0.82	-1.03	0.72	2.01	31	21.98	73	92	52	5	0	2	1
	DAYTONA BEACH	88	74	94	72	81	0	1.88	0.23	0.59	7.83	135	31.37	154	97	66	4	0	4	2
	JACKSONVILLE	91	73	98	72	82	1	5.31	3.94	3.43	11.32	214	23.89	108	96	60	4	0	3	3
	KEY WEST	89	78	91	75	84	0	0.83	-0.51	0.63	3.00	61	11.37	72	84	61	3	0	1	1
	MIAMI	92	76	94	74	84	2	4.72	2.66	2.23	11.32	125	27.62	111	91	60	7	0	5	3
	ORLANDO	93	76	98	73	84	2	0.66	-1.17	0.22	6.51	91	28.90	136	96	61	4	0	4	0
	TALLAHASSEE	94	73	98	71	84	3	1.32	-0.51	1.32	4.74	70	24.97	78	91	48	7	0	1	1
	TAMPA	89	75	93	73	82	0	3.28	1.86	0.88	8.43	158	24.92	140	92	66	4	0	6	4
	WEST PALM BEACH	90	73	93	71	81	0	1.52	-0.26	1.28	7.04	91	20.15	78	94	61	3	0	4	1
GA	ATLANTA	93	73	98	69	83	5	0.00	-0.90	0.00	1.89	49	25.49	93	80	42	6	0	0	0
	AUGUSTA	93	67	98	59	80	1	0.00	-0.99	0.00	1.36	34	15.07	62	91	47	5	0	0	0
	MACON	93	68	97	61	81	1	0.03	-0.86	0.03	1.93	56	20.24	82	94	45	6	0	1	0
	SAVANNAH	92	72	98	64	82	1	0.03	-1.39	0.03	2.09	38	13.51	58	88	48	3	0	1	0
HI	HILO	85	69	87	67	77	2	4.17	2.62	1.72	9.20	154	61.57	94	93	61	0	0	7	2
	HONOLULU	89	75	90	73	82	2	0.24	0.13	0.20	0.53	106	8.20	74	79	49	2	0	2	0
	KAHULUI	88	72	89	69	80	2	0.02	-0.04	0.02	0.02	8	12.82	102	82	53	0	0	1	0
	LIHUE	84	75	86	73	80	1	0.00	-0.37	0.00	1.51	93	17.31	80	81	63	0	0	0	0
ID	BOISE	75	52	86	49	64	-6	0.07	-0.08	0.07	0.13	17	7.41	107	79	35	0	0	1	0
	LEWISTON	72	52	80	49	62	-8	0.59	0.34	0.26	0.65	54	11.09	160	92	45	0	0	4	0
	POCATELLO	79	45	86	37	62	-4	0.00	-0.20	0.00	0.02	2	7.08	104	78	23	0	0	0	0
IL	CHICAGO	84	60	92	54	72	1	0.25	-0.63	0.25	5.15	142	18.15	111	89	55	2	0	1	0
	MOLINE	88	63	96	58	75	2	0.12	-0.92	0.08	2.34	57	17.15	94	86	46	4	0	2	0
	PEORIA	87	63	92	57	75	1	0.42	-0.64	0.42	1.87	48	16.27	94	87	46	3	0	1	0
	QUINCY	86	65	91	60	76	0	--	--	--	--	--	--	--	87	47	2	0	-	-
	ROCKFORD	85	60	94	55	72	1	0.78	-0.29	0.56	4.61	105	21.81	130	95	47	3	0	2	1
	SPRINGFIELD	88	64	94	58	76	1	0.19	-0.61	0.19	1.99	60	19.37	112	86	43	4	0	1	0
IN	EVANSVILLE	89	68	94	57	77	-1	0.00	-0.89	0.00	4.10	114	33.78	142	84	43	4	0	0	0
	FORT WAYNE	87	61	95	55	74	1	0.34	-0.49	0.19	5.26	152	21.30	125	86	46	2	0	2	0
	INDIANAPOLIS	86	63	90	57	74	0	0.29	-0.58	0.28	5.24	155	28.49	144	88	51	2	0	1	0
	SOUTH BEND	84	59	93	51	72	0	0.20	-0.79	0.20	7.02	176	23.67	129	85	47	2	0	1	0
IA	DES MOINES	86	67	95	64	77	4	0.34	-0.70	0.33	3.10	70	17.87	109	87	47	2	0	2	0
	SIOUX CITY	88	68	93	58	78	5	0.31	-0.52	0.31	4.86	138	14.15	110	91	47	4	0	1	0
	WATERLOO	89	66	99	58	77	6	0.30	-0.79	0.19	4.07	94	14.16	88	89	54	4	0	2	0
KS	CONCORDIA	94	71	99	64	82	5	0.00	-0.99	0.00	0.77	18	11.66	80	88	48	6	0	0	0
	DODGE CITY	92	68	96	60	80	2	0.48	-0.26	0.48	3.44	115	9.62	89	87	46	5	0	1	0
	GOODLAND	88	61	93	54	75	2	0.00	-0.70	0.00	1.36	44	7.80	79	93	43	3	0	0	0
	TOPEKA	91	73	96	69	82	6	0.02	-1.18	0.02	7.19	134	18.74	107	86	51	4	0	1	0
	WICHITA	95	72	100	68	83	6	0.07	-1.14	0.05	0.86	16	8.71	50	90	45	7	0	2	0
KY	BOWLING GREEN	87	66	93	59	76	0	0.02	-0.96	0.02	3.62	90	29.36	111	96	50	3	0	1	0
	LEXINGTON	85	64	91	57	74	0	0.08	-0.83	0.08	5.38	152	30.70	137	90	49	2	0	1	0
	LOUISVILLE	87	68	93	62	78	2	0.00	-0.83	0.00	3.65	109	28.62	124	83	50	4	0	0	0
LA	BATON ROUGE	90	72	92	70	81	0	0.21	-0.97	0.17	2.08	48	26.01	87	100	61	5	0	2	0
	LAKE CHARLES	88	73	94	70	81	-1	3.85	2.72	1.53	7.01	148	15.77	62	100	71	3	0	4	3
	NEW ORLEANS	91	73	94	72	82	1	3.84	2.41	2.07	8.55	151	23.01	75	97	58	5	0	4	3
	SHREVEPORT	89	72	92	70	81	1	1.12	0.23	0.57	6.66	164	16.55	63	96	62	4	0	3	1

Based on 1961-90 normals

Weather Data for the Week Ending June 29, 1996

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
ME	CARIBOU	67	49	78	46	58	-5	0.90	0.16	0.68	3.39	120	18.94	125	88	56	0	0	4	1
	PORTLAND	72	51	79	46	62	-4	0.28	-0.50	0.17	1.65	50	22.88	105	91	51	0	0	2	0
MD	BALTIMORE	84	60	88	54	72	-3	0.83	-0.02	0.47	3.91	110	26.16	131	92	46	0	0	2	0
	SALISBURY	84	60	88	56	72	-2	1.15	0.27	1.15	4.08	116	26.99	124	95	43	0	0	1	1
MA	BOSTON	77	59	84	57	68	-3	0.65	-0.04	0.29	1.55	52	21.70	104	90	39	0	0	3	0
	CHATHAM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
MI	ALPENA	79	53	89	45	66	2	0.09	-0.62	0.09	2.30	78	9.62	74	92	50	0	0	1	0
	DETROIT	83	63	94	55	73	3	0.04	-0.80	0.04	2.25	64	13.63	88	88	48	2	0	1	0
	FLINT	82	58	92	49	70	2	0.15	-0.59	0.15	3.84	123	13.92	102	82	45	1	0	1	0
	GRAND RAPIDS	83	58	92	51	71	1	0.03	-0.82	0.03	6.76	189	16.91	105	83	46	2	0	1	0
	HOUGHTON LAKE	80	54	88	45	67	2	0.13	-0.56	0.07	5.84	199	14.38	115	91	47	0	0	2	0
	LANSING	81	57	92	47	69	0	0.27	-0.48	0.17	4.15	128	13.72	98	90	48	1	0	3	0
	MARQUETTE	77	56	93	41	66	4	0.52	-0.27	0.35	3.94	117	22.38	141	91	54	2	0	2	0
	MUSKEGON	77	56	85	45	66	-1	0.45	-0.08	0.45	4.37	193	14.44	102	88	51	0	0	1	0
	SAULT ST. MARIE	72	48	82	37	60	0	1.84	1.13	1.78	3.34	110	16.04	109	96	59	0	0	2	1
MN	ALEXANDRIA	81	63	95	51	72	4	0.41	-0.53	0.33	0.66	17	7.75	63	91	56	2	0	2	0
	DULUTH	74	53	89	44	64	1	2.35	1.44	1.70	4.50	121	10.75	82	98	67	0	0	4	1
	INT'L FALLS	77	55	92	38	66	2	2.75	1.79	1.83	3.98	104	11.30	107	94	57	2	0	6	1
	MINNEAPOLIS	86	65	96	54	76	4	0.09	-0.84	0.09	4.76	121	11.38	83	87	52	3	0	1	0
	ROCHESTER	84	63	94	55	73	4	0.94	0.03	0.55	6.45	179	14.96	114	87	49	2	0	2	1
MS	GREENWOOD	94	72	97	69	83	2	--	--	--	--	--	--	--	95	49	7	0	-	-
	JACKSON	91	70	92	65	81	1	0.45	-0.26	0.23	3.90	127	30.07	99	94	51	6	0	2	0
	MERIDIAN	91	69	93	67	80	0	0.25	-0.68	0.25	1.76	51	26.79	87	98	53	7	0	1	0
MO	CAPE GIRARDEAU	90	69	98	63	80	1	0.00	-0.74	0.00	3.24	97	22.88	94	88	41	4	0	0	0
	COLUMBIA	87	65	92	62	76	1	0.39	-0.48	0.39	1.70	45	20.03	107	91	53	2	0	1	0
	KANSAS CITY	88	70	91	68	79	3	1.82	0.76	1.72	7.24	159	22.13	126	89	62	3	0	2	1
	SAINT LOUIS	89	68	94	62	78	0	0.00	-0.87	0.00	4.37	122	23.51	126	82	46	3	0	0	0
	SPRINGFIELD	87	67	90	65	77	2	0.81	-0.26	0.67	2.48	49	17.45	81	89	51	1	0	2	1
MT	BILLINGS	81	56	91	47	69	0	0.02	-0.36	0.02	0.84	44	8.13	90	81	29	1	0	1	0
	GLASGOW	77	54	87	47	66	-2	0.58	0.10	0.49	2.03	100	4.62	83	91	46	0	0	2	0
	GREAT FALLS	73	46	80	37	60	-5	0.14	-0.33	0.10	1.09	47	5.84	66	91	40	0	0	2	0
	HAVRE	75	52	84	43	64	-3	0.22	-0.17	0.18	1.71	102	5.86	99	90	42	0	0	4	0
	HELENA	76	49	87	37	62	-3	0.43	0.05	0.26	1.22	66	5.87	92	83	38	0	0	3	0
	KALISPELL	69	46	75	40	57	-3	1.11	0.66	0.73	1.70	80	14.69	167	98	46	0	0	4	1
	MILES CITY	83	58	92	49	71	0	0.00	-0.59	0.00	0.69	22	9.22	115	89	39	2	0	0	0
	MISSOULA	73	48	79	39	60	-3	0.22	-0.13	0.12	1.78	103	10.02	133	93	43	0	0	4	0
NE	GRAND ISLAND	88	68	95	58	78	3	0.26	-0.57	0.26	4.94	131	17.95	135	89	44	3	0	1	0
	LINCOLN	90	70	95	61	80	4	0.23	-0.62	0.12	3.10	83	18.49	133	89	53	4	0	2	0
	NORFOLK	88	68	93	54	78	5	0.34	-0.66	0.34	3.36	78	10.77	79	87	47	3	0	1	0
	NORTH PLATTE	86	62	90	57	74	3	0.01	-0.76	0.01	3.84	118	9.61	89	92	45	1	0	1	0
	OMAHA	89	70	97	63	79	4	0.98	0.12	0.96	2.96	79	17.86	122	87	45	3	0	1	1
	SCOTTSBLUFF	89	61	94	54	75	4	0.00	-0.57	0.00	0.86	33	8.09	90	86	29	4	0	0	0
	VALENTINE	86	64	94	50	76	3	0.73	-0.07	0.73	2.25	67	9.28	82	89	39	4	0	1	1
NV	ELY	79	37	84	31	58	-5	0.08	-0.12	0.06	0.08	7	4.52	84	67	14	0	1	1	0
	LAS VEGAS	94	69	101	62	82	-7	0.00	-0.03	0.00	0.00	0	0.51	26	47	11	5	0	0	0
	RENO	70	45	86	38	58	-11	0.71	0.63	0.49	0.71	161	7.08	164	89	38	0	0	2	0
	WINNEMUCCA	73	43	86	35	58	-10	0.36	0.20	0.36	0.36	43	5.84	124	82	36	0	0	1	0
NH	CONCORD	78	49	78	45	62	-5	0.16	-0.58	0.12	2.08	68	22.04	129	93	37	0	0	2	0
NJ	ATLANTIC CITY	81	58	88	53	69	-3	0.05	-0.61	0.05	3.32	120	22.99	117	86	42	0	0	1	0
NM	ALBUQUERQUE	85	63	92	59	74	-3	2.38	2.19	1.14	2.48	428	2.87	95	73	32	3	0	4	3
	CLOVIS	88	65	99	63	77	1	1.85	1.18	1.04	4.79	174	5.78	82	90	38	2	0	2	2
	ROSWELL	92	69	103	66	80	1	1.76	1.37	--	2.55	186	3.07	72	85	39	4	0	-	-
NY	ALBANY	77	57	79	49	67	-3	0.00	-0.82	0.00	3.36	98	20.04	114	88	41	0	0	0	0
	BINGHAMTON	71	54	74	49	63	-4	0.44	-0.41	0.26	5.52	158	21.83	124	92	56	0	0	2	0
	BUFFALO	75	58	81	51	67	-2	0.98	0.17	0.70	5.44	158	22.15	128	87	58	0	0	2	1
	NEW YORK	80	65	82	64	72	-2	0.28	-0.60	0.26	4.12	119	21.47	104	78	39	0	0	1	0
	ROCHESTER	75	57	79	52	66	-2	1.27	0.58	1.07	6.67	229	21.94	148	92	51	0	0	2	1
	SYRACUSE	74	56	78	49	65	-3	0.81	-0.30	0.45	3.33	91	17.84	100	90	50	0	0	4	0
NC	ASHEVILLE	84	62	91	59	73	1	0.56	-0.55	0.51	3.53	76	21.37	77	94	50	1	0	2	1
	CHARLOTTE	90	70	94	64	80	2	0.08	-0.74	0.08	2.55	78	20.42	93	76	44	4	0	1	0
	GREENSBORO	87	67	93	59	77	2	0.00	-0.92	0.00	0.65	18	19.66	94	83	47	2	0	0	0
	HATTERAS	82	69	86	64	76	-1	0.48	-0.52	0.48	4.60	115	--	--	88	57	0	0	1	0
	NEW BERN	89	71	96	64	80	2	0.33	-1.06	0.33	5.49	106	22.66	88	91	51	3	0	1	0
	RALEIGH	90	68	99	67	78	2	0.00	-0.85	0.00	3.04	85	20.24	96	90	47	4	0	0	0
	WILMINGTON	88	69	95	63	79	1	1.90	0.80	1.90	5.73	121	20.04	79	94	54	2	0	1	1
ND	BISMARCK	82	59	95	45	71	3	0.12	-0.60	0.12	2.28	87	7.22	88	88	54	2	0	1	0
	FARGO	81	63	94	48	72	4	0.70	0.04	0.37	1.14	42	8.22	67	90	57	3	0	2	0
	GRAND FORKS	81	61	96	51	71	4	0.93	0.24	0.70	1.08	39	8.54	78	94	56	2	0	3	1
	WILLISTON	78	54	91	42	66	-3	0.45	-0.07	0.33	2.11	96	5.37	75	96	57	1	0	2	0
OH	AKRON-CANTON	79	58	89	48	69	-2	0.89	0.11	0.89	6.85	217	21.40	120	86	43	0	0	1	1
	CINCINNATI	85	63	90	57	74	1	0.02	-0.89	0.02	4.53	122	32.97	154	87	48	1	0	1	0
	CLEVELAND	79	59	90	50	69	-1	0.43	-0.42	0.43	3.82	108	18.61	107	87	50	1	0	1	0
	COLUMBUS	85	63	92	54	74	3	0.35	-0.53	0.35	3.98	105	26.31	141	82	44	3	0	1	0
	DAYTON	85	62	91	55	74	1	0.00	-0.87	0.00	5.25	142	31.57	167	81	45	2	0	0	0

Based on 1961-90 normals

Weather Data for the Week Ending June 29, 1996

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
	TOLEDO	85	60	94	53	73	2	0.05	-0.83	0.05	4.80	135	17.88	114	83	40	2	0	1	0
	YOUNGSTOWN	78	56	85	47	67	-2	0.56	-0.39	0.56	3.92	103	20.71	116	92	48	0	0	1	1
OK	OKLAHOMA CITY	94	72	99	70	83	4	0.13	-0.71	--	2.21	53	8.38	47	88	48	7	0	-	-
	TULSA	91	74	94	71	83	2	0.17	-0.72	0.17	3.32	78	9.56	46	86	52	6	0	1	0
OR	ASTORIA	64	51	67	45	58	-1	0.75	0.29	0.36	1.17	51	43.53	126	97	63	0	0	3	0
	BURNS	66	41	80	33	53	-8	0.57	0.41	0.21	0.66	81	7.84	151	97	43	0	0	4	0
	MEDFORD	76	52	90	47	64	-5	0.22	0.13	0.20	0.22	40	14.32	156	81	38	1	0	2	0
	PENDLETON	74	50	80	46	62	-7	0.46	0.35	0.43	0.46	75	8.75	134	86	37	0	0	2	0
	PORTLAND	72	55	80	52	64	-2	0.30	0.04	0.26	0.53	37	31.08	166	86	41	0	0	2	0
	SALEM	71	52	78	46	62	-2	0.47	0.23	0.39	0.47	37	33.88	167	90	47	0	0	2	0
PA	ALLENTOWN	79	56	83	51	68	-5	0.54	-0.34	0.42	2.96	82	23.15	111	82	45	0	0	2	0
	ERIE	75	58	86	51	67	-2	0.60	-0.33	0.60	8.74	221	25.44	139	92	63	0	0	1	1
	HARRISBURG	82	64	86	58	73	-1	0.51	-0.34	--	5.47	147	24.82	122	86	44	0	0	-	-
	PHILADELPHIA	82	64	87	61	73	0	0.10	-0.91	0.07	3.07	76	20.54	92	78	45	0	0	2	0
	PITTSBURGH	82	61	88	54	72	1	3.11	2.23	3.11	7.70	214	25.84	138	87	50	0	0	1	1
	SCRANTON	75	54	80	47	65	-5	0.48	-0.46	0.24	3.19	83	22.83	131	90	47	0	0	2	0
RI	PROVIDENCE	78	67	85	54	68	-2	0.39	-0.35	0.35	1.92	60	19.96	86	83	41	0	0	2	0
SC	CHARLESTON	90	71	98	65	81	1	0.67	-0.94	0.63	3.54	57	14.32	59	91	53	3	0	2	1
	COLUMBIA	94	69	100	59	81	2	0.00	-1.20	0.00	1.54	33	17.27	69	84	37	6	0	0	0
	FLORENCE	84	71	97	64	77	-2	0.00	-1.13	0.00	2.39	56	13.15	61	95	60	3	0	0	0
	GREENVILLE	90	68	97	63	79	2	0.00	-1.13	0.00	4.19	90	29.26	108	87	46	4	0	0	0
SD	ABERDEEN	84	63	92	50	74	4	1.07	0.27	1.01	3.83	117	11.55	111	93	57	3	0	2	1
	HURON	86	66	92	52	76	5	0.15	-0.61	0.15	1.78	56	8.72	79	90	53	3	0	1	0
	RAPID CITY	86	59	92	47	72	4	0.00	-0.66	0.00	1.24	42	13.19	138	86	45	3	0	0	0
	SIOUX FALLS	87	65	93	53	76	5	0.23	-0.53	0.23	1.45	44	9.27	79	86	49	3	0	1	0
TN	CHATTANOOGA	90	70	94	66	80	3	0.00	-0.88	0.00	3.52	103	28.38	102	86	44	4	0	0	0
	KNOXVILLE	89	67	94	65	78	3	0.78	-0.22	0.78	2.94	78	27.36	109	90	49	3	0	1	1
	MEMPHIS	91	73	94	68	82	1	0.05	-0.75	0.05	10.18	296	33.26	121	84	49	5	0	1	0
	NASHVILLE	90	69	95	64	79	1	0.00	-0.80	0.00	3.56	103	23.28	93	83	50	4	0	0	0
TX	ABILENE	92	72	94	70	82	0	0.00	-0.60	0.00	2.73	99	9.21	82	87	41	6	0	0	0
	AMARILLO	91	65	94	62	78	1	1.46	0.63	0.98	2.27	64	4.50	49	85	41	4	0	5	1
	AUSTIN	90	74	94	72	82	-1	1.03	0.33	0.56	4.42	124	9.38	56	95	53	5	0	2	1
	BEAUMONT	88	74	93	71	81	-1	2.77	1.50	1.93	9.13	169	16.35	82	100	76	3	0	4	2
	BROWNSVILLE	93	78	95	75	86	2	0.01	-0.55	0.01	0.01	0	0.80	8	90	57	7	0	1	0
	CORPUS CHRISTI	92	76	93	73	84	1	1.10	0.39	0.90	1.10	34	3.95	30	95	60	7	0	2	1
	DEL RIO	99	78	100	76	89	6	0.00	-0.57	0.00	0.00	0	2.23	19	73	32	7	0	0	0
	EL PASO	92	70	99	67	81	-1	2.29	2.06	1.14	2.42	367	3.20	140	66	30	4	0	3	2
	FORT WORTH	96	76	97	75	86	5	0.00	-0.80	0.00	3.46	110	10.26	53	86	47	7	0	0	0
	GALVESTON	87	79	91	75	83	0	0.39	-0.64	0.36	1.33	31	6.06	33	88	69	1	0	2	0
	HOUSTON	88	73	93	70	80	-1	3.50	2.16	1.99	6.78	115	12.02	47	98	60	3	0	3	2
	LUBBOCK	90	68	97	66	79	0	1.33	0.71	1.06	2.47	93	5.33	67	80	44	4	0	3	1
	MIDLAND	94	72	98	68	83	2	1.03	0.73	0.97	1.86	139	3.40	58	83	34	6	0	2	1
	SAN ANGELO	96	73	98	71	84	3	0.06	-0.36	0.06	1.55	70	6.61	66	82	36	7	0	1	0
	SAN ANTONIO	93	75	96	73	84	0	0.31	-0.44	0.15	2.07	57	4.48	29	93	49	7	0	4	0
	VICTORIA	87	74	91	73	81	-2	5.49	4.45	2.41	6.52	147	9.86	49	97	67	2	0	4	4
	WACO	95	75	97	72	85	1	0.00	-0.62	0.00	2.28	72	8.11	47	91	47	7	0	0	0
	WICHITA FALLS	99	74	101	73	86	5	0.00	-0.73	0.00	0.67	18	3.11	18	86	36	7	0	0	0
UT	CEDAR CITY	83	53	89	46	68	-2	0.00	-0.12	0.00	0.00	0	4.90	93	32	15	0	0	0	0
	SALT LAKE CITY	87	58	93	53	73	-1	0.09	-0.08	0.09	0.09	10	10.99	121	69	19	3	0	1	0
VT	BURLINGTON	71	54	74	49	62	-6	0.41	-0.42	0.28	4.45	132	22.55	150	92	44	0	0	3	0
VA	NORFOLK	83	69	90	64	76	-1	2.56	1.80	2.56	6.41	173	27.00	125	81	54	1	0	1	1
	RICHMOND	86	66	93	59	76	0	1.18	0.26	1.18	3.36	96	17.94	86	87	31	3	0	1	1
	ROANOKE	86	65	90	56	76	2	0.47	-0.28	0.47	7.81	254	27.08	139	82	43	1	0	1	0
WA	QUILLAYUTE	64	48	68	43	56	-1	0.49	-0.12	0.45	2.20	74	49.81	91	95	58	0	0	2	0
	SEATTLE-TACOMA	69	52	78	48	61	-2	0.56	0.26	0.53	0.59	41	25.76	140	91	49	0	0	2	1
	SPOKANE	69	49	74	44	59	-6	0.89	0.64	0.37	0.89	73	11.36	129	93	44	0	0	3	0
	YAKIMA	76	46	81	40	61	-6	0.04	-0.06	0.04	0.04	8	5.19	126	86	34	0	0	1	0
WV	BECKLEY	81	58	86	52	70	2	0.82	-0.13	0.58	4.19	113	26.83	131	93	50	0	0	3	1
	CHARLESTON	83	61	88	55	72	-1	0.85	-0.07	0.70	4.22	121	28.39	139	99	50	0	0	2	1
	HUNTINGTON	86	63	91	56	74	2	0.84	-0.23	0.82	4.41	133	28.85	138	97	51	1	0	2	1
	PARKERSBURG	85	60	93	53	72	0	0.49	-0.44	0.49	3.41	93	24.91	119	97	48	1	0	1	0
WI	GREEN BAY	82	60	95	51	71	3	0.89	0.10	0.75	5.57	170	14.50	113	88	50	3	0	3	1
	LACROSSE	87	64	99	56	76	4	1.11	0.17	--	6.08	166	15.00	110	91	47	3	0	-	-
	MADISON	81	60	92	50	71	0	0.57	-0.34	0.37	8.05	222	17.80	123	84	51	2	0	2	0
	MILWAUKEE	81	59	95	50	70	2	0.09	-0.71	0.05	5.00	159	13.49	88	93	56	3	0	2	0
	WAUSAU	79	59	94	50	69	1	0.84	-0.10	0.40	8.57	221	17.07	121	91	54	2	0	3	0
WY	CASPER	86	48	93	44	67	1	0.00	-0.30	0.00	0.87	62	5.39	75	83	20	3	0	0	0
	CHEYENNE	81	53	86	48	67	2	0.22	-0.25	0.22	1.75	86	7.59	99	83	32	0	0	1	0
	LANDER	84	51	90	44	68	1	0.00	-0.26	0.00	0.59	42	6.42	80	70	16	1	0	0	0
	SHERIDAN	81	54	93	48	68	2	0.09	-0.34	0.09	1.31	61	8.37	96	87	43	1	0	1	0
PR	SAN JUAN	88	77	91	76	83	0	--	--	--	--	--	--	--	84	60	1	0	-	-

Based on 1961-90 normals

National Agricultural Summary

June 24 - 30, 1996

HIGHLIGHTS

Warm, sunny weather across the Central States dried fields and allowed farmers to complete row crop planting. The long-awaited warm weather stimulated crop development in the Corn Belt that had been suppressed by the persistent cool, wet spring. Midwestern corn producers were anxious to control weeds but found that the favorable weather had accelerated growth and left some corn fields too tall to cultivate. Some Iowa producers who used herbicides to control weeds reported crop damage. Hot, humid weather over the northern Great Plains stimulated crop development, but increased grasshopper populations. Widespread rains brought drought relief to the Southwest. Hot, muggy weather over the Southeast increased insect pressure.

The Nation's **winter wheat** crop was in mostly fair to good condition. Wheat harvested for the 19 major producing States was 40 percent (%) complete, up 12 percentage points from the previous week but 2 points behind the 5-year average. The wheat harvest was active in the southern Great Plains. Wheat harvested in Texas at 83% complete was 11 points ahead of the average. Wheat harvested in Kansas at 42% complete was up 22 points from the previous week but 9 points behind the average. Humid weather in Nebraska prevented wheat harvest activity, and left the State 11 points behind the average. Warm weather rapidly matured wheat in Illinois and Indiana, where farmers were busy harvesting, but both States remained 8 points behind their average. Weeds and head scab problems were reported in some wheat fields in the Ohio Valley. Foot rot was evident in some dryland wheat fields in the Pacific Northwest.

Spring wheat headed was 19% complete, 22 points below the average. Spring wheat condition was mostly good to fair. Spring wheat headed in Minnesota at 33% complete was up 26 points from the previous week, but 30 points behind the average.

Corn silking was 4% complete for the 17 major producing States, up 1 point from the previous week, but 1 point behind the average. Corn was in mostly good to fair condition. Corn condition was also fair to good in Indiana and mostly good in Iowa. Corn grew rapidly in the Midwest due to warm, sunny weather and favorable soil moisture. Corn producers in the Midwest were busy cultivating and spraying for weeds. Corn borer was reported in the western Corn Belt. Uneven corn development resulted from the wet spring conditions that delayed planting and required significant replanting. The average height of corn in Wisconsin was 12 inches, compared with the 5-year average of 25 inches.

Cotton squaring was 68% complete, up 15 points from a week earlier and 13 points ahead of the average for the 14 major producing States. Cotton condition was mostly good to fair for the 14 major producing States. Hot weather accelerated cotton development across the Southern States, but also increased insect populations. In New Mexico, cotton squaring was 82% complete, up 32 points from the previous week and 34 points ahead of the average. Arizona cotton producers were concerned with insect pressure and fruit retention. Cotton producers in the Delta scouted fields and sprayed to control worms. In Texas, many dryland cotton fields have failed and will be replanted to alternative crops. Heavy rains along the Texas coast caused plants to shed bolls and squares.

Rice headed for the five major producing States was 9% complete, up 7 points from the previous week. Beneficial rains aided rice growth, and rice condition was mostly good to excellent. Rice fields in the Delta were treated for sheath blight. Rice fields in Texas benefited from the rains, and low insect pressure was reported.

Soybean planting was 95% complete, up 11 points from the previous week, and equal to the average. Soybean condition was good to fair. Warmer weather improved soybean growth in the Midwest and allowed producers to nearly complete soybean planting. Soybean planting lagged 9 and 10 points behind normal in Indiana and Tennessee, respectively. In Illinois, planting was 95% complete, up 18 points from the previous week but 3 points behind the average. The average height of soybeans in Minnesota was 8 inches, 1 inch below the 5-year average of 9 inches.

Crop Progress and Condition

Week Ending June 30, 1996

Soybeans Percent Planted

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
AL	90	85	95	90
AR	90	84	95	89
GA	94	86	94	91
IL	95	77	96	98
IN	90	65	99	99
IA	99	96	100	98
KS	95	89	81	91
KY	80	52	96	84
LA	98	97	98	89
MI	94	78	100	100
MN	99	99	99	96
MS	99	98	98	88
MO	88	74	81	90
NE	100	99	100	100
NC	90	73	74	85
OH	98	81	97	99
SC	90	79	87	86
SD	98	94	95	94
TN	77	60	86	87
ALL	95	84	95	95

These 19 States produced 94% of the 1995 soybean crop.

Winter Wheat Percent Harvested

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
AR	92	74	97	91
CA	80	55	69	61
CO	1	0	0	9
GA	98	89	99	97
ID	0	0	0	0
IL	30	1	29	38
IN	18	0	24	26
KS	42	20	15	51
MI	0	0	0	0
MO	40	14	40	46
MT	0	0	0	0
NE	0	0	0	11
NC	80	48	67	78
OH	0	0	3	13
OK	98	87	78	85
OR	0	0	0	0
SD	0	0	0	0
TX	83	78	71	72
WA	0	0	0	0
ALL	40	28	28	42

These 19 States produced 92% of the 1995 winter wheat crop.

Corn Percent Silking

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
CO	0	0	1	0
GA	90	77	96	91
IL	0	0	1	5
IN	0	0	0	4
IA	0	0	0	0
KS	4	0	1	9
KY	0	0	18	14
MI	0	0	0	1
MN	0	0	0	0
MO	13	3	6	10
NE	0	0	0	1
NC	45	17	56	46
OH	0	0	0	1
PA	1	0	2	1
SD	0	0	0	0
TX	59	56	70	62
WI	0	0	0	0
ALL	4	3	4	5

These 17 States produced 91% of the 1995 corn crop.

Cotton Percent Squaring

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
AL	82	73	83	68
AZ	95	80	84	88
AR	96	85	82	78
CA	55	45	26	51
GA	83	66	81	73
LA	98	85	94	81
MS	96	89	94	74
MO	83	57	67	65
NM	82	50	36	48
NC	50	26	46	48
OK	41	27	2	18
SC	73	38	44	56
TN	80	53	79	61
TX	48	33	43	38
ALL	68	53	59	55

These 14 States produced 99% of the 1995 cotton crop.

Rice Percent Headed

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	1
CA	0	0	0	0
LA	26	6	27	29
MS	8	1	3	2
TX	26	9	31	25
ALL	9	2	9	9

These 5 States produced 96% of the 1995 rice crop.

Oats Percent Headed

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
IA	78	30	81	84
MI	35	10	63	55
MN	51	13	52	71
NE	90	68	NA	NA
ND	7	0	3	35
OH	56	26	77	84
PA	75	48	73	27
SD	38	5	20	70
WI	45	10	56	55
ALL	49	18	49	62

These 9 States produced 56% of the 1995 oat crop.

Peanuts Percent Pegging

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
AL	48	27	37	30
FL	70	64	NA	NA
GA	51	32	60	47
NC	6	4	NA	NA
OK	41	20	13	17
SC	15	0	0	0
TX	24	8	NA	NA
VA	10	0	NA	NA
ALL	39	23	49	39

These 8 States produced 99% of the 1995 peanut crop.

Barley Percent Headed

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
ID	32	17	26	40
MN	26	12	35	66
MT	10	1	17	30
ND	13	1	8	42
SD	24	6	15	68
WA	60	55	90	91
ALL	19	8	20	45

These 6 States produced 82% of the 1995 barley crop.

Crop Progress and Condition

Week Ending June 30, 1996

Spring Wheat Percent Headed

	Jun 30 1996	Prev Week	Prev Year	5-Yr Avg
ID	38	22	22	40
MN	33	7	40	63
MT	17	0	20	29
ND	12	0	10	37
SD	44	8	25	71
ALL	19	2	18	41

These 5 States produced 96% of the 1995 spring wheat crop.

Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	0	1	9	79	11
GA	3	14	38	41	4
IL	1	9	39	42	9
IN	4	12	41	35	8
IA	1	7	27	54	11
KS	0	1	18	66	15
KY	1	7	24	53	15
MI	6	12	28	44	10
MN	0	5	32	56	7
MO	1	9	34	44	12
NE	1	2	22	58	17
NC	1	7	17	41	34
OH	4	11	44	36	5
PA	1	4	16	59	20
SD	1	2	24	59	14
TX	17	13	30	26	14
WI	3	10	34	44	9
ALL	2	7	30	50	11
Prev Wk	2	8	30	50	10
Prev Yr	1	6	30	50	13

Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	19	69	10
AZ	1	1	11	61	26
AR	0	4	14	58	24
CA	0	0	10	40	50
GA	2	7	30	55	6
LA	0	1	11	66	22
MS	0	3	18	62	17
MO	0	10	36	44	10
NM	0	6	15	49	30
NC	0	2	29	49	20
OK	0	12	42	43	3
SC	0	6	23	58	13
TN	1	3	16	59	21
TX	16	22	30	26	6
ALL	6	11	24	44	15
Prev Wk	5	13	23	45	14
Prev Yr	1	7	36	47	9

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	44	49	5
AR	0	5	20	64	11
GA	1	5	28	64	2
IL	1	9	43	41	6
IN	2	11	45	37	5
IA	1	7	28	55	9
KS	0	1	16	73	10
KY	0	3	20	59	18
LA	0	3	31	58	8
MI	7	14	31	38	10
MN	0	6	35	54	5
MS	0	5	38	48	9
MO	1	6	44	42	7
NE	1	3	21	62	13
NC	0	6	21	54	19
OH	3	10	42	37	8
SC	0	6	17	61	16
SD	0	4	27	58	11
TN	1	3	22	61	13
ALL	1	7	34	50	8
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	1	6	33	50	10

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	1	6	25	41	27
CA	0	0	0	60	40
CO	8	12	28	40	12
GA	0	7	24	65	4
ID	0	1	6	50	43
IL	12	44	31	13	0
IN	9	25	41	22	3
KS	22	24	31	19	4
MI	11	17	33	33	6
MO	14	21	33	28	4
MT	3	7	26	52	12
NE	6	19	41	31	3
NC	3	4	43	50	0
OH	8	21	44	24	3
OK	20	31	35	14	0
OR	0	0	10	41	49
SD	5	13	31	47	4
TX	15	28	43	14	0
WA	0	2	5	60	33
ALL	13	21	31	27	8
Prev Wk	15	22	30	26	7
Prev Yr	9	19	34	31	7

Oats Crop Condition by Percent

	VP	P	F	G	EX
IA	1	5	24	61	9
MI	2	7	31	45	15
MN	1	2	34	57	6
NE	1	3	29	55	12
ND	0	2	23	68	7
OH	2	17	45	30	6
PA	1	2	22	65	10
SD	0	2	21	68	9
WI	4	9	21	52	14
ALL	1	5	26	59	9
Prev Wk	1	4	27	59	9
Prev Yr	NA	NA	NA	NA	NA

Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	31	67	0
FL	1	0	6	62	31
GA	2	3	24	65	6
NC	0	0	21	56	23
OK	0	7	40	52	1
SC	0	0	37	61	2
TX	4	12	50	29	5
VA	0	0	14	61	25
ALL	2	4	29	56	9
Prev Wk	0	5	27	59	9
Prev Yr	NA	NA	NA	NA	NA

Barley Crop Condition by Percent

	VP	P	F	G	EX
ID	0	0	6	60	34
MN	1	7	42	38	12
MT	1	5	34	47	13
ND	0	3	21	66	10
SD	0	1	20	74	5
WA	0	15	26	41	18
ALL	0	4	25	56	15
Prev Wk	0	4	22	59	15
Prev Yr	NA	NA	NA	NA	NA

Crop Progress and Condition

Week Ending June 30, 1996

Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	4	17	56	23
CA	0	0	0	80	20
LA	0	2	34	54	10
MS	0	5	29	51	15
TX	0	5	10	55	30
ALL	0	3	18	59	20
Prev Wk	0	2	18	61	19
Prev Yr	0	2	19	58	21

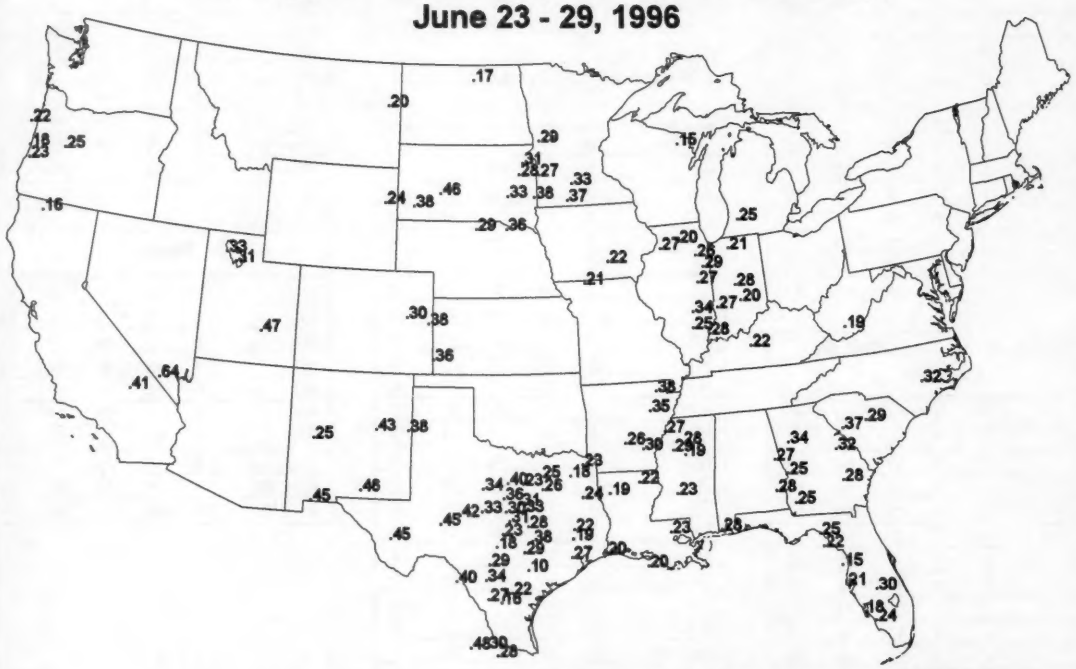
Spring Wheat Crop Condition by Percent

	VP	P	F	G	EX
ID	0	1	10	59	30
MN	1	7	38	45	9
MT	1	6	30	51	12
ND	0	3	22	68	7
SD	0	3	17	59	21
ALL	0	4	25	61	10
Prev Wk	0	3	23	63	11
Prev Yr	2	7	27	54	10

VP - Very Poor
P - Poor
F - Fair
G - Good
EX - Excellent

Average Pan Evaporation (Inches/Day)

June 23 - 29, 1996



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

State Agricultural Summaries

These summaries, issued weekly through the summer growing season, provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS home page at http://www.usda.gov/nass/ or from JAWF at http://www.usda.gov/oce/waob/jawf.

ALABAMA: Days suitable for fieldwork 6.5. Topsoil 9% very short, 53% short, 38% adequate. Corn 62% silked, 72% 1995, 64% avg.; 10% dented, 14% 1995, 13% avg.; 8% poor, 34% fair, 48% good, 10% excellent. Wheat 87% harvested, 96% 1995, 85% avg. Livestock 3% poor, 50% fair, 44% good, 3% excellent. Row and hay crops were drought stressed in many localities with non-irrigated fields hit hardest. Rains scattered and spotty in most localities.

ALASKA: Partly sunny skies, seasonal temperatures blanketed most of the State last week. Light to sometimes heavy showers were received in some crop growing areas. Days available for haying activities 6. Topsoil 50% short, 50% adequate. Subsoil 55% short, 45% adequate. Crop growth 45% slow, 55% moderate. First crop hay harvest was <5% complete, 10% 1995. Height of small grain averaged 10 in., 4 in. shorter than 1995. Barley 50% poor, 35% fair, 15% good. Commercial potato height averaged 5 in., 2 in. below 1995 growth. Hay 40% poor, 45% fair, 15% good.

ARIZONA: Cotton insect pressure, fruit retention still concerning growers. Cotton setting bolls 60%, 29% 1995, 35% avg. Small grain harvest 96%, 85% 1995, 90% avg.; 100% good. Alfalfa harvest 74% active, 26% not being harvested; 6% fair, 65% good, 29% excellent. Summer melon shipments declining as season nears end. Watermelon, cantaloupe, honeydew, specialty melons were shipped central, western areas. Central vegetable growers also harvested sweet corn, carrots, chili peppers, green onions. Eastern growers continued to harvest dry onions, tomatoes. Citrus harvest in central areas nearing completion. Central growers shipped decreasing amounts of grapefruit, Valencia oranges. Table grape harvest continued in western, central vineyards. Extreme drought conditions continued across the State forcing cattlemen to move their herds to other areas or sell them. Ongoing supplemental feeding was needed statewide due to lack of forage. Low to mid-elevation mesquite bean crops continued to provide some new feed for the cattle, is not expected to last long. Range, pasture conditions were virtually unchanged from a month ago, as mid-month showers in a few localities provided some relief. Very poor to poor pasture conditions were reported again in all areas, elevations of State. Typical summer monsoonal rains needed desperately to relieve the drought conditions. Cattle, calves were rated in mostly poor condition due to lack of feed. Stock water, soil moisture supplies remained short in all areas of the State. Insect damage was mentioned in a few reports.

ARKANSAS: Days suitable for fieldwork 6. Soil moisture 43% short, 55% adequate, 2% surplus. Main farm activities of the week were: Planting soybeans, cultivating, irrigating, fertilizing cotton, fertilizing, flooding rice fields, irrigating corn, harvesting wheat, hay. Rainfall slowed some soybean planting in Monroe County. Some replanting of soybeans was reported in Prairie County. Soybean planting was delayed in Clay County due to lack of soil moisture. Grasshoppers were sprayed in some soybean fields in Little River County. Cotton cultivation, irrigation, fertilization were reported by many counties. Cotton was treated for worms in Lincoln County. Cotton scouting was reported by numerous counties. Flooding and draining rice fields were reported by several counties. Rice fields were being treated for sheath blight in Lincoln County. Also, stem rot surfaced in a few rice fields in Lincoln County. Corn irrigation continued in numerous counties. Sorghum fields were treated for midge in Lafayette County. Wheat harvest was completed in many counties. Blueberry harvest continued in Benton County. Johnson County reported blueberry harvest concluded. Tomatoes suffered with spotted wilt virus in Drew County. Livestock good. Flies, ticks continued to be a problem in Van Buren County. Hay harvest continued.

CALIFORNIA: Field activities made good progress under favorable weather conditions. Cool morning temperatures slowed growth of corn, cotton, rice. Grain harvest of wheat, barley, oats was winding down in the San Joaquin, Sacramento Valleys, and was virtually complete in the desert counties. Straw was baled or burned from the small grain stubble, ground was prepared for second crop plantings. Cotton was irrigated, weeded, sprayed for aphids, lygus, mites. Rice fields were treated for weeds, water weevils and shrimp. Sugar beets, garbanzo bean harvest continued in the San Joaquin Valley. Corn, dry beans, sorghum were sprayed for weeds and mites. Safflower, seed alfalfa, blackeye beans treated for lygus and mites. Safflower was blooming in most areas, while heading began in the southern San Joaquin Valley. Sugar beets sprayed for mildew in the Sacramento Valley. Alfalfa, sudangrass were cut for hay or green chopped. Normal cultural practices continued in orchards, vineyards. Grapes were treated for mildew, insects. Mission fig harvest continued. Fresh grape picking remained active in the Coachella Valley, continued to move northward. Apricot, cherry harvests were winding down. Freestone peaches, plums, nectarines were picked. Walnuts were treated for codling moth and blight; almonds for mites and codling moth. Lemon harvest continued with excellent quality noted. Valencia orange harvest slowed. Red grapefruit harvest was winding down. Strawberry picking was complete, except in the coastal valley areas. Artichoke harvest continued in Monterey County. Broccoli, cauliflower were harvested in the coastal valleys. Squash harvest continued in the San Joaquin Valley. Lettuce was harvested in San Benito County. Carrots progressed well in Los Angeles County. Processing tomatoes were cultivated and treated for insects. In Kern County, processing tomato harvest began. In the San Joaquin Valley, the fresh market tomato harvest continued. Potatoes in Kern County were harvested. Melon harvest began in central counties. Garlic, onions, bell pepper harvests continued. Rangeland feed quality remained good in most areas, although conditions were rapidly deteriorating at lower elevations. Some cattle herds were thinned due to poor feed quality, lack of available water. Livestock movement was slow to moderate. Supplemental feeding was increasing. Cattle, sheep were in good condition.

COLORADO: Days suitable for fieldwork 5.3. Topsoil 4% very short, 25% short, 69% adequate, 2% surplus. Subsoil 6% very short, 24% short, 68% adequate, 2% surplus. Spring barley 95% headed, 52% 1995, 44% avg.; 46% turning color, 2% 1995, 8% avg.; 1% very poor, 8% poor, 22% fair, 52% good, 17% excellent. Oats 66% headed, 36% 1995, 52% avg.; 18% turning color, 0% 1995, 7% avg.; 1% very poor, 9% poor, 20% fair, 56% good, 14% excellent. Dry onions 1% poor, 8% fair, 65% good, 26% excellent. Spring wheat 60% headed, 49% 1995, 42% avg.; 35% turning color, 0% 1995, 1% avg.; 1% very poor, 4% poor, 16% fair, 64% good, 15% excellent. Sorghum 98% planted, 86% 1995, 92% avg.; 90% emerged, 74% 1995, 75% avg.; 5% poor, 25% fair, 61% good, 9% excellent. Winter wheat 77% turning color, 67% 1995, 78% avg.; 14% ripe, 3% 1995, 21% avg. Sugar beets 99% thinned, 45% 1995, 85% avg.; 11% poor, 16% fair, 57% good, 16% excellent. Summer potatoes 1% very poor, 1% poor, 4% fair, 67% good, 27% excellent. Fall potatoes 100% emerged, 88% 1995, 83% avg.; 5% poor, 25% fair, 60% good, 10% excellent. Dry beans 100% planted, 66% 1995, 89% avg.; 96% emerged, 49% 1995, 71% avg.; 1% poor, 12% fair, 69% good, 18% excellent. Alfalfa hay 82% 1st cutting, 58% 1995, 69% avg.; 15% 2nd cutting, 2% 1995, 5% avg.; 6% poor, 24% fair, 56% good, 14% excellent.

DELAWARE: Days suitable for fieldwork 5.5. Topsoil 7% short, 80% adequate, 13% surplus. Subsoil 87% adequate, 13% surplus. Winter wheat 99% turning, 100% 1995, 98% avg.; 39% harvested, 14% 1995,

31% avg. Barley 99% harvested, 91% 1995, 89% avg. Sorghum 5% fair, 77% good, 18% excellent; 67% planted, 98% 1995, 99% avg. Corn 3% poor, 19% fair, 57% good, 21% excellent. Soybeans 2% poor, 18% fair, 66% good, 14% excellent; 65% planted, 74% 1995, and 78% avg. Tomatoes 92% planted, 100% 1995, 100% avg. Green peas 86% harvested, 84% 1995, 81% avg. Lima beans 40% planted, 54% 1995, 70% avg. Apples 4% fair, 96% good. Peaches 13% fair, 85% good, 2% excellent. Strawberries 95% harvested, 100% 1995, 100% avg. Alfalfa hay 27% second cutting, 50% 1995, 54% avg. Other hay 93% first cutting, 100% 1995, 100% avg.; 18% second cutting, 41% 1995, 20% avg. Hay supplies 5% very short, 12% short, 80% adequate, 3% surplus. Activities: Planting field crops and vegetables, cutting hay, harvesting small grains and vegetables.

FLORIDA: Topsoil mostly short to adequate Panhandle, mostly adequate to surplus Peninsula. Tobacco harvest active. Haying active. Peanuts pegging 70%; 1% very poor, 6% fair, 62% good, 31% excellent. High temperatures, humidity with scattered thunderstorms, showers occurred this past week over most of the State, especially in the southern half. Daytime temperatures continued to reach into the upper 80s, 90s. Tomato picking continues in the Quincy area. Sweet corn picking is tapering off. The potato harvest in the Hastings area was almost complete. Watermelon harvest remains active. Some growers were cleaning, preparing fields for the fall crop planting. Rain all citrus areas. Lots of new growth, very little irrigation. New crop fruit doing very well. Valencia harvest very slow. Grapefruit harvest almost complete. Caretakers cutting cover crops, spraying, fertilizing, pushing, burning dead trees. Pasture feed fair 25%, good 55%, excellent 20%. Pasture condition considerably improved following recent rains, increased temperature. Condition of cattle herds: Fair 25%, good 60%, excellent 15%.

GEORGIA: Days suitable for fieldwork 6.4. Soil moisture 17% very short, 48% short, 35% adequate. Corn 40% dough, 69% 1995, 62% avg.; 8% dent, 31% 1995, 28% avg. Hay 1% very poor, 12% poor, 39% fair, 47% good, 1% excellent. Peanuts 91% blooming, 88% 1995, 85% avg. Sorghum 5% poor, 34% fair, 60% good, 1% excellent; 94% planted, 91% 1995, 92% avg. Soybeans 13% blooming, 10% 1995, 7% avg. Tobacco 2% poor, 30% fair, 60% good, 8% excellent; 11% harvested, 15% 1995, 13% avg. Watermelons 5% very poor, 8% poor, 32% fair, 47% good, 8% excellent; 35% harvested, 45% 1995, 38% avg. Apples 1% fair, 99% good. Peaches 87% very poor, 5% poor, 4% fair, 4% good; 67% harvested, 73% 1995, 69% avg. Pecans 1% very poor, 8% poor, 39% fair, 43% good, 9% excellent. Soil moisture lowest since late May, rain needed most areas. Supplemental feeding of cattle on pastures few central areas. Most row crops, pasture, and hay down from last week. Insect pressure starting to build in cotton. Activities: Harvesting, marketing vegetables, irrigating, harvesting hay, spraying cotton, peanuts for insect, disease control, planting soybeans behind wheat.

HAWAII: Frequent showers, relatively high temperatures result in some rot and disease losses. Papaya production seasonally higher. Banana production steady, seasonal increase expected. Watermelon harvesting active; crop good to fair condition. Head cabbage crop condition fair to good. Tomato production light, crop good condition.

IDAHO: Days suitable for fieldwork 6.3. Topsoil 12% short, 83% adequate, 5% surplus. Potatoes emerged 96%, 93% 1995, 96% avg.; closing middles 14%, 4% 1995, 13% avg.; 1% very poor, 2% poor, 21% fair, 55% good, 21% excellent. Spring wheat jointed 93%; booted 71%. Barley jointed 85%; booted 66%. Alfalfa hay harvested (1st cutting) 75%, 68% 1995, 80% avg.; harvested (2nd cutting) 2%, 0% 1995, 5% avg. Dry beans emerged 93%, 88% 1995, 93% avg. Sugar beets thinned 96%, 79% 1995, 93% avg. Cherries harvested 11%, 23% 1995, 40% avg. Pasture feed, range condition 13% fair, 48% good, 39% excellent. Irrigation water supply 35% good, 65% excellent. Activities: Inspecting small grains for frost damage, harvesting alfalfa hay, irrigating, cultivating, spraying potatoes for late blight.

ILLINOIS: Days suitable for fieldwork 6.2. Topsoil 9% short, 80% adequate, 11% surplus. Several days of sunshine allowed fields to dry out, permitted farmers to complete corn planting, nearly complete soybean planting. Hot, dry weather has allowed soybean planting to progress to near the average. Soybean planting was lagging the State average only in the northeast where soil moisture was still surplus and in southern areas where the Mississippi, Ohio Rivers were flooded. Warm weather promoted rapid maturing of winter wheat, which had farmers busy harvesting. Fieldwork activities were planting, cultivating, spraying chemicals, mowing, and taking care of livestock. Corn height 26 in, 25 in. 1995, 37 in. avg. Soybeans 1% blooming, 2% 1995, 14% avg. Sorghum 90% planted, 82% 1995, 94% avg. Winter wheat 97% filled, 100% 1995, 100% avg.; 89% turning yellow, 99% 1995, 99% avg.; 60% ripe, 83% 1995, 78% avg. Oats 69% headed, 90% 1995, 91% avg.; 30% filled, 37% 1995, 63% avg.; 5% turning yellow, 6% 1995, 27% avg.; 1% very poor, 2% poor, 40% fair, 50% good, 7% excellent. Alfalfa 86% first cutting, 99% 1995, 99% avg.; 9% second cutting, 10% 1995, 29% avg.; 1% very poor, 8% poor, 31% fair, 49% good, 4% excellent. Red clover 77% cut, 87% 1995, 89% avg.; 5% poor, 49% fair, 42% good, 4% excellent.

INDIANA: Days suitable for fieldwork 5.7. Topsoil 11% short, 73% adequate, 16% surplus. Subsoil 3% short, 73% adequate, 24% surplus. Soybean planting 16 days behind average. Sunshine, warm weather continues to help corn, soybean growth. Winter wheat harvest in full swing in southern areas. Weeds and head scab problems evident in some wheat fields. Oats heading, central, southern areas. Transplanting tobacco 85% complete, 96% 1995, 99% avg. First cutting of alfalfa hay 85% complete, 98% 1995, 99% avg. Activities: Cultivating corn, side dressing corn, spraying, tilling, hay equipment maintenance, purchasing shorter season soybeans, mowing fence rows, care of livestock.

IOWA: Days suitable for fieldwork 4.9. Topsoil short 5%, adequate 79%, surplus 16%. Subsoil short 2%, adequate 78%, surplus 20%. It was hot, relatively dry over most of State. Warm, dry days were a welcomed relief since crop emergence, growth has been impeded by the cool, wet spring. Reporter comments mixed, ranged from "everything looks good" to "some corn looks poorer now than it did before last week." Producers were able to get into fields to cultivate, spray for weeds; however, some of the corn is getting too tall to cultivate. Along with the spraying of herbicides to control weeds, came several comments of herbicide damage to the developing crops. Hail damage reported in the northwest, west -central districts. Corn cultivated 1st time 58%, 60% 1995, 69% avg.; tallest height of corn 33 in.; average height of corn 22 in. Soybeans emerged 96%, 96% 1995, 94% avg.; replanted or to be replanted 6%. Oats headed 78%, 81% 1995, 84% avg. Alfalfa hay 1st harvest 78%, 93% 1995, 89% avg. Hay 1% very poor, 5% poor, 23% fair, 58% good, 13% excellent. Winter wheat 12% very poor, 19% poor, 31% fair, 33% good, 5% excellent. Livestock mostly good. A few reports indicated that livestock experienced some heat stress from last week's weather.

KANSAS: Days suitable for fieldwork 5.2. Topsoil 2% very short, 31% short, 65% adequate, 2% surplus. Subsoil 4% very short, 22% short, 73% adequate, 1% surplus. Wheat harvest is in full swing. Harvest has begun in all districts except the northwest. Weeds are a problem in many areas as a result of thin wheat stands, recent wet weather. Harvest has been delayed in some areas by scattered rains. Sorghum, soybean planting are nearing completion. Planting progress of both soybeans, sorghum is ahead of the average. Replanting was necessary on some fields washed out by heavy rains or damaged by hail. Pasture condition continues to make gradual improvement. Feed grain, hay shortages continue to be reported across the State. Feed grain supplies are 36% short, hay 22% short. Alfalfa cut the second time 36% complete, 21% 1995, 40% avg. Activities: Harvesting wheat, baling brome and alfalfa, finishing planting.

KENTUCKY: Days suitable for fieldwork 5.3. Topsoil 1% very short, 11% short, 75% adequate, 13% surplus. Subsoil 1% very short, 8%

short, 76% adequate, 15% surplus. Blue mold, other disease, insect pressure remains low in tobacco. Set tobacco 1% very poor, 6% poor, 30% fair, 53% good, 10% excellent. Corn 17% tasseled. Insect problems minimal. Average height emerged soybeans 5.00 in. Wheat harvest progressed to 60%. Wheat yields highly variable. Barley 98% harvested. Sorghum 83% planted. First, second cuttings of hay cut and baled. Thin stands causing some light tonnage. Pasture feed 4% poor, 26% fair, 61% good, 9% excellent.

LOUISIANA: Days suitable for fieldwork 4.0. Soil moisture 2% very short, 13% short, 64% adequate, 21% surplus. Corn 2% very poor, 7% poor, 9% fair, 71% good, 11% excellent; 100% silked, 94% 1995, 94% avg.; 70% dough, 72% 1995, 63% avg.; 1% mature, 6% 1995, 6% avg. Corn producers began irrigating a few drier fields. Cotton 98% squaring, 93% 1995, 79% avg. Cotton farmers continued spraying to control insect, weed populations. Hay 89% first cutting, 82% 1995, 81% avg. Hay cutting picked up in drier areas. Peaches 48% harvested, 33% 1995, 48% avg. Rice, sheath blight in rice increased with added moisture. Sorghum 24% fair, 66% good, 10% excellent; 23% headed, 33% 1995, 32% avg. Soybeans 3% poor, 31% fair, 58% good, 8% excellent; 97% emerged, 92% 1995, 85% avg.; 25% blooming, 14% 1995, 6% avg. Completion of soybean planting was delayed by rains. Sugarcane 2% very poor, 7% poor, 28% fair, 45% good, 18% excellent. Sugarcane farmers continued to work fallow fields, were hindered by wet conditions. Sweetpotatoes 86% planted, 86% 1995, 81% avg. Livestock 6% poor, 29% fair, 57% good, 8% excellent. Vegetables 7% poor, 36% fair, 54% good, 3% excellent. Vegetable producers were harvesting tomatoes, cucumbers, squash, cantaloupes. Pasture feed 5% poor, 32% fair, 56% good, 7% excellent. Pasture growth remained active.

MARYLAND: Days suitable for fieldwork 5.5. Topsoil 1% very short, 9% short, 83% adequate, 7% surplus. Subsoil 4% short, 81% adequate, 15% surplus. Winter wheat 100% turned, 99% 1995, 96% avg.; 34% harvested, 23% 1995; 31% avg. Barley 62% harvested 81% 1995, 81% avg. Rye 4% very poor, 7% poor, 24% fair, 50% good, 4% excellent; 85% turned, 97% 1995, 97% avg.; 31% harvested, 27% 1995, 36% avg. Corn 1% very poor, 7% poor, 24% fair, 51% good, 17% excellent. Soybeans 5% poor, 23% fair, 61% good, 11% excellent; 70% planted, 79% 1995, 79% avg. Tobacco 7% fair, 87% good, 6% excellent. Sorghum 1% poor, 35% fair, 56% good, 8% excellent; 78% planted, 92% 1995, 96% avg. Sweet corn 96% planted, 96% 1995, 98% avg. Tomatoes 99% planted, 98% 1995, 99% avg. Potatoes 5% harvested, 18% 1995, 11% avg. Alfalfa hay 32% 2nd cutting, 33% 1995, 41% avg. Other hay 93% first cutting, 97% 1995, 98% avg.; 6% second cutting, 11% 1995, 15% avg. Hay supplies 6% very short, 14% short, 77% adequate, 3% surplus. Apples 5% very poor, 5% poor, 9% fair, 71% good, 10% excellent. Peaches 4% very poor, 5% poor, 8% fair, 73% good, 10% excellent. Strawberries 92% harvested, 95% 1995, 98% avg. Activities: Planting field crops and vegetables, cutting hay, harvesting small grains, vegetables.

MICHIGAN: Days suitable for fieldwork was 5.0. Topsoil 5% short, 67% adequate, 28% surplus. Subsoil 2% short, 68% adequate, 30% surplus. Corn emerged 96%, 100% 1995, 100% avg.; height 12 inches, 23 in. 1995, 25 in. avg. Dry beans planted 45%, 98% 1995, 94% avg. Soybeans emerged 83%, 96% 1995, 98% avg. Soybean and dry bean growers continued to experience planting delays. All hay, first cutting, 65%, 90% 1995, 82% avg.; 5% very poor, 11% poor, 30% fair, 41% good, 13% excellent. Winter wheat headed 96%, 99% 1995, 99% avg. Pasture feed 1% very poor, 4% poor, 21% fair, 51% good, 23% excellent. Major activities: Planting dry beans, soybeans, spraying fruit trees, harvesting strawberries, and hay, waiting for things to dry out.

MINNESOTA: Days suitable for fieldwork 5.1. Topsoil 1% very short, 11% short, 80% adequate, 8% surplus. Corn 68% cultivated, 77% 1995, 68% avg.; 21 in. height, 25 in. 1995, 27 in. avg. Soybeans 35% cultivated, 44% 1995, 48% avg.; 8 in. height, 9 in. 1995, 9 in. avg. Spring wheat 66% jointing, 94% 1995, 95% avg.; 33% heading, 40% 1995, 63% avg. Oats 90% jointing, 92% 1995, 95% avg.; 51% heading, 52% 1995, 71% avg. Barley 72% jointing, 91% 1995, 95% avg.; 26% heading, 35% 1995, 66% avg. Alfalfa 91% first cutting, 95% 1995, 88% avg. Pasture feed 6% poor, 36% fair, 49% good, 9% excellent. Oats 1% very poor, 2% poor, 34% fair, 57% good, 6% excellent. Barley 1% very poor, 7% poor, 42% fair, 38% good, 12% excellent. Corn 5% poor, 32% fair, 56% good, 7% excellent. Spring wheat 1% very poor, 7% poor, 38% fair, 45% good, 9% excellent. Sugar beets 1% very poor, 4% poor, 44% fair, 44% good, 7% excellent. Soybeans 6% poor, 35% fair, 54% good, 5% excellent.

MISSISSIPPI: Days suitable for fieldwork 6.1. Soil moisture 6% very short, 26% short, 64% adequate, 4% surplus. Corn 83% silked, 80% 1995, 66% avg.; dough 26%, 37% 1995, 23% avg.; 6% poor, 21% fair, 63% good, 10% excellent. Soybeans 99% planted, 98% 1995, 88% avg.; 98% emerged, 93% 1995, 81% avg.; 47% blooming, 20% 1995, 9% avg.; 5% poor, 38% fair, 48% good, 9% excellent. Wheat 100% harvested, 96% 1995, 89% avg.; hay (warm season) 47% harvested 50% 1995, 52% avg.; 4% very poor, 13% poor, 30% fair, 50% good, 3% excellent. Peaches 53% harvested, 29% 1995, 46% avg.; 8% very poor, 34% poor, 33% fair, 20% good, 5% excellent. Sweetpotatoes 80% planted, 88% 1995, 88% avg.; 1% poor, 19% fair, 79% good, 1% excellent. Watermelons 31% harvested, 0% 1995, 1% avg.; 4% poor, 33% fair, 48% good, 15% excellent. Blueberries 3% very poor, 29% poor, 36% fair, 26% good, 6% excellent. Cattle 1% very poor, 6% poor, 26% fair, 60% good, 7% excellent. Pasture feed 4% very poor, 11% poor, 29% fair, 51% good, 5% excellent. Main farming activities: Checking fields for insects, controlling grasses, weeds. Cattlemen are harvesting hay some acreage has low production due to the shortage of moisture.

MISSOURI: Days suitable for fieldwork 5.4. Topsoil 1% very short, 21% short, 67% adequate, 11% surplus. Clear skies, warm weather enabled farmers to move toward completion of single-crop soybean, sorghum planting across the State. Dry weather also allowed for major progress with the wheat harvest, hay cutting activities. Single-crop soybean planting is 94% complete. Forty-eight percent of the double-crop beans are in the ground, led by about 75% planted in the Bootheel. Southeast, southwest district lead the State with 55% of the corn crop silking. Ninety-seven percent of the sorghum crop has been planted across State. Virtually all of the wheat crop has turned color across the State; 80% or more of the wheat crop has been harvested across the southern third of the State, just commenced across most other areas of the State. Oats harvested 13%, 2% 1995, 15% avg. Alfalfa first cutting 94%, 88% 1995, 97% avg. Alfalfa second cutting 25%, 11% 1995, 29% avg. Other hay cut 64%, 60% 1995, 69% avg. Pasture, range feed 1% very poor, 14% poor, 46% fair, 37% good, 2% excellent.

MONTANA: Days suitable for fieldwork 4.5. Topsoil 1% very short, 24% short, 68% adequate, 7% surplus. Subsoil 1% very short, 22% short, 69% adequate, 8% surplus. Localized hail damage reported. Welcome moisture received in areas. Haying is going strong. Winter wheat 84% headed, 71% 1995, 84% avg. Oats 2% very poor, 4% poor, 25% fair, 54% good, 15% excellent; 49% boot, 64% 1995, 72% avg.; 9% headed, 18% 1995, 28% avg. First cutting alfalfa 30% complete, 21% 1995, 36% avg. First cutting other hay 20% complete, 17% 1995, 24% avg.

NEBRASKA: Days suitable for fieldwork 5.5. Topsoil 24% short, 72% adequate, 4% surplus. Subsoil 10% short, 87% adequate, 3% surplus. Warm, humid weather conditions continued to boost crop development last week. Most of the wheat crop was turning color, with some test cutting in the southeast. Corn growth accelerated last week with some fields now too tall to cultivate. Grasshopper populations were a concern in the east, southeast districts, while corn borer activities were picking up in the eastern two-third of the State. Nebraska producers in most areas were able to conduct fieldwork activities nearly every day last week. However, the south-central, east-central experienced some rain delays. Wheat 74% turning color, 67% 1995, 86% avg.; 4% ripe, 4% 1995, 29% avg.; reports indicated that harvest will begin in most southern counties in the next 5-7 days; panhandle harvest was expected

to begin near mid-month. Corn; producers were busy cultivating, hilling, spraying for weeds; crop growth moved at a rapid pace last week due to the hot, humid conditions. Soybeans, sorghum emergence were virtually complete as of 30th. Alfalfa 1% very poor, 5% poor, 31% fair, 51% good, 12% excellent; 96% 1st cutting, 95% 1995, 98% avg. Wild hay 1% poor, 23% fair, 68% good, 8% excellent. Pasture, range feed 1% poor, 21% fair, 66% good, 12% excellent; pasture continued to develop well with good moisture, warm conditions; hot, humid conditions stressed feedlot effecting rate of gain; however, no losses from the conditions were reported. Activities, spraying herbicides, cultivating row crops, irrigation preparation activities, cutting of alfalfa, grain marketing.

NEVADA: Cool weather slowed crop development, thunderstorms limited fieldwork. Fall seeded grains in the Northwest were mostly in the dough stage, spring seeded grains were advancing into dough. Barley was being harvested for silage. Grain crop condition continued to be mostly good to excellent, although some fields may have been damaged by hail. Thunder showers damaged some late first cutting alfalfa in the northern counties. Fourth cutting was commencing extreme south. Alfalfa weevil remained a problem in Lyon County. Other hay harvests continued as weather allowed, with Sudan being cut extreme south, grass hay northwest. Cool, wet wether through the Spring has grass in excellent condition for hay northwest. Onions were in good condition. Water was being cut on garlic in Lyon County. Branding, vaccinating, movement of cattle to Summer ranges was virtually complete. Some sheep shearing continued. Main farm, ranch activities: Haying, irrigating, spraying for weeds and insects.

NEW ENGLAND: Days suitable for fieldwork 5.1. Topsoil 7% short, 71% adequate, 22% surplus. Subsoil 1% short, 85% adequate, 14% surplus. Pasture feed 1% poor, 21% fair, 59% good, 19% excellent. Maine potatoes 100% planted, 100% 1995, 100% avg.; 100% emerged, 100% 1995, 100% avg.; good/excellent. Massachusetts potatoes 100% planted, 100% 1995, 100% avg.; 100% emerged, 100% 1995, 100% avg.; good. Rhode Island potatoes 100% planted, 100% 1995, 100% avg.; 100% emerged, 100% 1995, 100% avg.; good. Maine oats 100% planted, 100% 1995, 100% avg.; 100% emerged, 100% 1995; good/excellent. Maine barley 100% planted, 100% 1995, 100% emerged, 100% 1995; excellent. Field corn 99% planted, 99% 1995, 100% avg.; 99% emerged, 99% 1995, 99% avg.; good/fair. Sweet corn 99% planted, 99% 1995, 99% avg.; 95% emerged, 95% 1995, 95% avg.; good. Shade tobacco 100% planted, 100% 1995; good/excellent. Outdoor tobacco 90% planted, 99% 1995, good. First hay 50% harvested, 80% 1995, 75% avg.; condition fair/good. Apples set and size average; condition good. Peaches, pears size and set average; condition good/fair. Strawberries 50% harvested, set and size average; condition good. Cranberries at early bloom to full bloom; size average; condition good. Highbush blueberries set and size average; condition good. Wild blueberries set average; condition good. Clear weather early in the week allowed farmers to make dry hay but cool, wet weekend weather hampered further field operations. Major farm activities: Picking strawberries, cultivating row crops, side dressing field corn; harvesting lettuce, squash, peas, zucchini, cabbage, radishes. Fungicide sprays are being applied to fruits, vegetables.

NEW JERSEY: Days suitable for fieldwork 5. Topsoil mostly adequate. Light harvest of spring cabbage. Strawberry harvest complete. Harvest of green beans, cucumbers, sweet corn, tomatoes reported. Peaches, apples continue to size well. Harvest of barley expected soon. Pasture feed excellent.

NEW MEXICO: Days suitable for fieldwork 5.3. Soil 25% very short, 55% short, 20% adequate. Temperatures cooled toward weekend as tropical moisture flowed northward across the State. A few locations went from less than 25% of normal rainfall for the year to above normal in just a few days. Corn 1% poor, 30% fair, 59% good, 10% excellent. Cotton 6% poor, 15% fair, 49% good, 30% excellent; cotton squaring 82%, 36% 1995, 48% avg. Sorghum planted jumped sharply as farmers hurried to take advantage of ground moisture; 91% planted, 100% 1995, 89% avg. Sorghum 8% very poor, 26% poor, 50% fair, 16% good. Alfalfa 5% poor, 17% fair, 59% good, 19% excellent; second cutting 74% complete and third cutting 22% complete. Chile 1% poor, 20% fair, 59% good, 20% excellent with pod set reported light to average. Onion 5% fair, 55% good, 40% excellent with 52% of the harvest complete; pecan 15% fair, 60% good, 25% excellent. Wheat 45% very poor, 25% poor, 21% fair, 7% good, 2% excellent. Wheat harvested 80%, 49% 1995, 70% avg. A large portion of dryland wheat did not mature due to very poor crop conditions, percentage harvested reflects the progress on acreage to be harvested for grain. Cattle, sheep conditions fell slightly with cattle at 7% very poor, 33% poor, 40% fair, 20% good; sheep at 10% very poor, 40% poor, 42% fair, 8% good.

NEW YORK: Days suitable for fieldwork 5.5. Soil moisture 63% adequate, 37% surplus. Hay fair to good. Alfalfa first cutting 79% complete, 88% 1995, 85% avg. Clo-Tim 67% harvested, 83% 1995, 75% avg. Wheat fair to good. Corn 98% planted, 100% 1995, 100% avg. Dry beans 79% planted. Pasture feed 8% fair, 88% good, 4% excellent. Early planted potatoes flowering. Apples good condition. Vineyards progressing well. Peach condition varies, some areas report extensive frost damage. Strawberry harvest continued. Early sweet corn tasseling, stands spotty due to heavy rains. Onion growers assessing damage from excessive rainfall in June.

NORTH CAROLINA: Days suitable for fieldwork 6.2. Soil moisture 11% very short, 33% short, 46% adequate, 10% surplus. Sorghum 92% planted, 74% 1995, 84% avg. Sweetpotatoes transplanted 96%, 88% 1995, 95% avg. Irish potatoes 55% harvested 54% 1995, 57% avg. Hay first cutting 95%, 96% 1995, 94% avg.; second cutting 40%, 25% 1995, 36% avg. Wheat 80% harvested, 67% 1995, 78% avg. Crop condition: Tobacco 1% very poor, 4% poor, 20% fair, 51% good, 24% excellent; soybeans 6% poor, 21% fair, 54% good, 19% excellent; hay 4% poor 34% fair, 58% good, 4% excellent; Irish potatoes, 10% fair, 90% good; sweetpotatoes 1% poor, 1% fair, 91% good, 7% excellent; apples 1% very poor, 3% poor, 36% fair, 60% good; peaches 67% very poor, 17% poor, 11% fair, 5% good; truck crops 4% poor, 10% fair, 57% good, 29% excellent. Activities included: Planting sorghum, soybeans; cultivating crops; spraying for insects, weed control; harvesting small grains, peaches, cucumbers, other vegetables; topping and applying sucker control on tobacco; applying land plaster to peanuts; cutting and baling hay; pasture maintenance; tending livestock; repairing equipment, general farm maintenance.

NORTH DAKOTA: Days suitable for fieldwork 6. Several frontal systems with showers added to surplus soil moisture in the northern tier but was welcomed by the rest of the State. Topsoil 15% short, 78% adequate, 7% surplus. Subsoil 13% short, 77% adequate, 10% surplus. Continued warm temperatures last week pushed small grain development into the heading stage, ahead of last year, behind average. Durum 5% heading and beyond; 2% 1995; 17% avg. Late season crop heights were near last year, behind average. Canola 11 in.; flaxseed 7 in.; 5 in. 1995; 7 in. avg.; corn 17 in.; 17 in. 1995; 18 in. avg.; dry edible beans 6 in.; 7 in. 1995; 8 in. avg.; soybeans 7 in.; 7 in. 1995; 8 in. avg.; sunflower 8 in.; 10 in. 1995; 11 in. avg.; sugarbeets 8 in.; 9 in. 1995; 11 in. avg.; potatoes 10 in.; 8 in. 1995; 11 in. avg. Emerged crop condition: durum 3% poor, 25% fair, 65% good, 7% excellent; canola 1% very poor, 4% poor, 17% fair, 62% good, 16% excellent; flaxseed 1% poor, 22% fair, 69% good, 8% excellent; corn 1% poor, 18% fair, 72% good, 9% excellent; dry beans 1% very poor, 2% poor, 15% fair, 67% good, 15% excellent; soybeans 6% poor, 27% fair, 61% good, 6% excellent; sunflower 3% poor, 15% fair, 68% good, 14% excellent; sugar beets 1% very poor, 2% poor, 12% fair, 72% good, 13% excellent; potatoes 1% very poor, 1% poor, 5% fair, 69% good, 24% excellent.

OHIO: Days suitable for fieldwork 5.9. Topsoil 8% short, 71% adequate, 21% surplus. Winter wheat harvest has started. Alfalfa hay first cutting 81% complete, 93% 1995, 98% avg.; other hay first cutting 66% complete, 84% 1995, 93% avg. First sweet corn of the season was harvested.

OKLAHOMA: Days suitable for fieldwork 6.2. Topsoil 6% very short, 38% short, 56% adequate. Subsoil 12% very short, 49% short, 39% adequate. Wheat 63% plowed, 27% 1995, 39% avg.; oats 97% harvested, 56% 1995, 58% avg.; 60% plowed, 10% 1995, 25% avg.; corn 72% tasseling, 15% 1995, 31% avg.; 12% milk-to-soft, 3% 1995, 8% avg.; sorghum 76% up-to-stand, 71% 1995, 76% avg.; 10% headed, 1% 1995, 1% avg.; soybeans 98% planted, 68% 1995, 73% avg.; 89% up-to-stand, 46% 1995, 58% avg.; 15% blooming, 10% 1995, 5% avg.; peanuts 94% up-to-stand, 79% 1995, 83% avg.; cotton 98% up-to-stand, 87% 1995, 88% avg.; alfalfa 6% poor, 32% fair, 60% good, 2% excellent; alfalfa hay 75% 2nd cutting, 64% 1995, 66% avg.; 15% 3rd cutting, 6% 1995, 7% avg.; other hay 59% 1st cutting, 78% 1995, 82% avg.; 10% 2nd cutting, 9% 1995, 16% avg.; livestock 3% poor, 24% fair, 70% good, 3% excellent. Feeder steers and heifers were firm to $2/cwt higher.

OREGON: Days suitable for fieldwork 5.3. Topsoil 30% short, 70% adequate. Subsoil 14% short, 86% adequate. Barley 1% harvested, 0% 1995, 2% avg. Winter wheat 99% headed, 100% 1995, 99% avg. Activities: Haying continued as weather permitted, statewide. Canola harvest underway, winter wheat turning, Mid-Columbia. Western fall grains turning also. Swathing grass seed varieties underway. Nursery, greenhouse irrigation, spraying, cultivation continuing. Weeding, bud picking continued, southern coast. Potatoes 99% emerged, Klamath Basin. Vegetable growth good, sweet corn needed higher temperatures, Willamette Valley. Strawberry harvest winding down, raspberry harvest continued, blueberries ripening, Marion variety blackberries turned color, sweet cherry harvest continued, Willamette Valley. Fresh cherry harvest winding down, excellent quality; canning cherry nearing harvest; Mid-Columbia region. Pears, apples good, cherry harvest underway, Rogue River Valley. Cranberry bloom neared completion Stevens variety, past peak McFarlin variety, Girdler moth peak flight underway, southern coast. Livestock good-excellent. Western pasture feed good.

PENNSYLVANIA: Days suitable for fieldwork 5.0. Soil moisture 3% short, 80% adequate, 17% surplus. Corn height 23 in., 21 in. 1995, 20 in. avg.; 1% very poor, 4% poor, 16% fair, 59% good, 20% excellent. Tobacco transplanted 98% complete, 97% 1995, 97% avg. Soybeans planted 90% complete, 87% 1995, 93% avg.; 1% very poor, 3% poor, 27% fair, 45% good, 24% excellent. Barley 96% turning yellow, 86% 1995, 82% avg.; 74% ripe, 69% 1995, 56% avg.; 45% harvested, 44% 1995, 35% avg. Wheat 78% turning yellow, 79% 1995, 66% avg.; 19% ripe, 15% 1995, 20% avg.; 5% harvested, 4% 1995, 5% avg.; 1% very poor, 10% poor, 26% fair, 56% good, 7% excellent. Oats 75% heading or headed, 73% 1995, 27% avg.; 20% turning yellow, 7% 1995, 14% avg.; 2% ripe, 2% 1995, 2% avg.; 5% harvested, 4% 1995, 5% avg.; 1% very poor, 2% poor, 22% fair, 65% good, 10% excellent. Alfalfa 1st cutting 83% complete, 79% 1995, 90% avg.; 2nd cutting 30% complete, 15% 1995, 23% avg. Timothy clover first cutting 60% complete, 63% 1995, 77% avg. Quality of hay made 4% very poor, 15% poor, 26% fair, 39% good, 16% excellent. Peach 2% very poor, 7% poor, 18% fair, 68% good, 5% excellent. Apple 3% very poor, 4% poor, 21% fair, 57% good, 15% excellent. Activities: Planting soybeans; harvesting small grains; making hay and haylage; fixing fences; caring for livestock.

PUERTO RICO: No weather data available.

SOUTH CAROLINA: Soil moisture ratings were 13% very short, 37% short, 49% adequate, 1% surplus. Days suitable for fieldwork 6.4. Barley 96% harvested, 81% 1995, 84% avg.; 1% poor, 20% fair, 79% good. Corn 5% very poor, 10% poor, 32% fair, 38% good, 15% excellent; 89% silked, 87% 1995, 81% avg.; 37% doughed, 41% 1995, 37% avg. Oats 98% harvested, 95% 1995, 90% avg.; 3% poor, 20% fair, 69% good, 8% excellent. Rye 96% harvested, 93% 1995, 82% avg.; 3% very poor, 7% poor, 41% fair, 44% good, 5% excellent. Sorghum 90% planted, 76% 1995, 75% avg.; 1% poor, 23% fair, 56% good, 20% excellent. Tobacco topped 55%, 42% 1995, 60% avg.; 7% harvested, 0% 1995, 6% avg.; 1% very poor, 2% poor, 10% fair, 71% good, 16% excellent; wheat 96% harvested, 95% 1995, 91% avg.; 1% very poor, 3% poor, 28% fair, 51% good, 17% excellent. Peach harvest 32% complete, 30% 1995, 29% avg.; 16% very poor, 58% poor, 23% fair, 3% good. Watermelons 45% harvested, 52% 1995, 45% avg.; 12% poor, 30% fair, 57% good, 1% excellent. Cantaloups 56% harvested, 58% 1995, 47% avg.; 10% poor, 32% fair, 55% good, 3% excellent. Tomatoes 74% harvested, 60% 1995, 59% avg.; 33% fair, 51% good, 16% excellent. Cucumbers 73% harvested, 54% 1995, 68% avg.; 19% fair, 76% good, 5% excellent. Sweetpotatoes 100% planted, 66% 1995, 84% avg.; 7% poor, 14% fair, 78% good, 1% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 5.3. Topsoil 9% short, 74% adequate, 17% surplus. Subsoil 3% short, 67% adequate, 30% surplus. Hot, humid weather stimulated crop development, enabled producers to nearly finish planting sorghum, soybeans, sunflowers. Producers were also busy cultivating soybeans, corn. A growing population of grasshoppers were reported that are causing damage to alfalfa, small grains. Barley 62% boot, 55% 1995, 86% avg. Oats 72% boot, 62% 1995, 88% avg. Spring wheat 71% boot, 64% 1995, 89% avg. Corn height 15 in., 12 in. 1995, 20 in. avg.; cultivated once 62%, 47% 1995, 71% avg. Flax 98% emerged, 94% 1995, 94% avg.; 3% fair, 90% good, 7% excellent. Sorghum planted 93%, 86% 1995, 92% avg.; 1% poor, 38% fair, 53% good, 8% excellent. Soybeans 4% poor, 27% fair, 58% good, 11% excellent. Sunflowers 97% planted, 89% 1995, 95% avg.; 1% poor, 25% fair, 62% good, 12% excellent. Winter wheat headed 92%, 97% 1995, 99% avg.; 15% turning color, 18% 1995, 46% avg. Winter rye headed 98%, 99% 1995, 99% avg.; 5% turning color, 5% 1995, 39% avg.; 1% very poor, 12% poor, 30% fair, 48% good, 9% excellent. 1st cutting alfalfa 70% harvested, 65% 1995, 74% avg. Alfalfa 1% very poor, 8% poor, 27% fair, 56% good, 8% excellent. Other hay 22% harvested, 23% 1995, 27% avg. Livestock 10% fair, 70% good, 20% excellent. Stock water supplies 73% adequate, 27% surplus.

TENNESSEE: Days suitable for fieldwork 6.0. Topsoil 3% very short, 24% short, 69% adequate, 4% surplus. Subsoil 2% very short, 17% short, 75% adequate, 6% surplus. Cotton 4% setting bolls, 5% 1995, 3% avg. Corn 3% poor, 9% fair, 64% good, 24% excellent; 56% tasseled, 60% 1995, 36% avg. Tobacco 4% poor, 27% fair, 64% good, 5% excellent; 97% transplanted, 98% 1995, 99% avg. Wheat 87% harvested, 94% 1995, 83% avg. Sorghum 10% fair, 71% good, 19% excellent. Alfalfa hay 4% poor, 26% fair, 64% good, 6% excellent; 42% second cutting, 61% 1995, 59% avg. Other hay 9% poor, 41% fair, 47% good, 3% excellent. Pasture feed 2% very poor, 10% poor, 37% fair, 46% good, 5% excellent. Cattle 1% very poor, 3% poor, 30% fair, 60% good, 6% excellent.

TEXAS: Open weather conditions now needed in area. Harvest operations slowed in Valley, Coastal Bend by showers. The rain may help some later fields in these areas. Haying operations increased during week. Many pastures greened up over last few weeks. Livestock conditions remained good most areas.

Crops: Small Grains: Scattered showers slowed harvest progress Plains. Dryland yields continued poor with irrigated yields fair, good. Most harvest completed north-central. Corn: Scattered fields in High Plains damaged by hail. Rainfall received will help, but high temperatures will offset some of benefit. Many fields north, south-central areas continued show heat, drought stress. Some fields have been disastered out by insurance companies. Rainfall along Upper Coast should benefit later fields. Most fields in dent stage. Corn 45% dough, 52% 1995, 45% avg.; 20% dent, 25% 1995, 17% avg. Grain sorghum planting winding down many fields High Plains last week between showers. Fields rapidly turning color throughout south-central areas. Rainfall in Coastal Bend, Rio Grande Valley delayed early harvest progress. Rainfall these areas will be of little benefit because many fields have matured. Sorghum 69% normal compared 81% 1995; 95% planted, 96% 1995, 96% avg.; 53% heading, 69% 1995, 57% avg.; 32% coloring, 50% 1995, 37% avg.; 16% mature, 26% 1995, 14% avg. Cotton fields continued in various stages in Plains. Many dryland fields have failed, will be planted to alternative crops. Many irrigated fields look good. Rainfall should help both dryland, irrigated acreage. Heavy rain along Upper Coast caused some shedding some bolls, squares. Cotton 3% bolls opening, 1% 1995, 1% avg. Rice: Rainfall will help, heading continued in many fields along Upper Coast. Peanuts planting winding

down most areas as weather permitted. Good progress on planted fields reported many areas with little insect, disease problems. Peanuts 94% planted, 87% 1995, 74% avg. Soybeans: Moisture should benefit fields north -central as pods beginning to fill. Some water damage reported along Upper Coast where most fields showing good progress. Other crops: Oats harvested 89%, 64% 1995, 67% avg. Sunflowers planted 78%, 80% 1995, 82% avg.

Commercial Vegetables: Rio Grande Valley, melon harvest continued few fields. Land preparations continued. San Antonio- Winter Garden, cucumber, cantaloup harvest continued. Watermelon harvest continued in irrigated fields. Dryland fields showing poor prospects. East, harvest continued most vegetables with little delay. Heavy insect problems have been reported some fields. High Plains, potato harvest set begin soon. Onions, cabbage continued make good progress. Some damage reported on chili peppers from hail, high winds. Trans-Pecos, cantaloup harvest increasing. Onion harvest also continued. Pecans: Heavy nut drop continued many areas. Producers continued monitor, spray their groves.

Range and Livestock: Haying operations increasing more areas. Recent rainfall increased greening, growth in some pastures. Marketing lambs, culling cattle continued. Prices seen slight increase in past few weeks. Flies continued to be problem many areas.

UTAH: Days suitable for fieldwork 6.6. Topsoil 15% very short, 40% short, 43% adequate, 2% surplus. Subsoil 13% very short, 40% short, 44% adequate, 3% surplus. Irrigation water supply 7% very short, 19% short, 68% adequate, 6% surplus. Stock water supply 11% very short, 29% short, 57% adequate, 3% surplus. Spring wheat headed 87%, 68% 1995, 81% avg. Barley headed 92%, 72% 1995, 83% avg. Oats headed 49%, 47% 1995, 50% avg. Corn height 22 in., 10 in. 1995, 18 in. avg. Alfalfa hay first cutting 93%, 86% 1995, 91% avg.; 2nd cutting 4%, 5% 1995, 7% avg. Other hay cut 26%, 24% 1995, 36% avg. Sweet cherries picked 12%. Range, pasture feed 8% very poor, 10% poor, 37% fair, 43% good, 2% excellent. Major farm, ranch activities: Irrigating crops, harvesting alfalfa, other hay, spraying corn for mites, picking sweet cherries.

VIRGINIA: Days suitable for fieldwork 5.9. Topsoil 1% very short, 26% short, 67% adequate, 6% surplus. Subsoil 1% very short, 13% short, 79% adequate, 7% surplus. Corn 7% silked, 1995 5%, 7% avg.; 20% fair, 65% good, 15% excellent. Soybeans 60% planted, 69% 1995, 70% avg.; 19% fair, 73% good, 8% excellent. Oats 60% harvested, 39% 1995, 55% avg. Winter wheat 35% harvested, 35% 1995, 47% avg.; 3% poor, 37% fair, 56% good, 4% excellent. Barley 70% harvested, 79% 1995, 87% avg. Cotton 7% poor, 27% fair, 40% good, 26% excellent. Peanuts 10% pegged; 14% fair, 61% good, 25% excellent. Alfalfa 1% poor, 19% fair, 63% good, 17% excellent. Other hay 2% poor, 20% fair, 70% good, 8% excellent. Summer potatoes 10% harvested, 6% 1995, 8% avg. Fire cured tobacco 13% poor, 41% fair, 45% good, 1% excellent. Flue cured tobacco 3% poor, 16% fair, 73% good, 8% excellent. Burley tobacco transplanted 98%, 98% 1995, 97% avg.; 17% fair, 74% good, 9% excellent. Sun cured tobacco 20% fair, 80% good. Pasture feed 5% poor, 20% fair, 65% good, 10% excellent. Apples 5% very poor, 10% poor, 10% fair, 50% good, 25% excellent. Peaches 5% poor, 25% fair, 65% good, 5% excellent. Activities: Soybean planting continues. Small grain harvest behind five year average but producers are making progress. Straw being baled. Land plaster, leafspot application in peanuts continues. Growth regulator, boron being applied to cotton. Squash, cucumbers, tomatoes, potatoes being harvested. Vegetable crops being irrigated. Burley tobacco transplanting almost complete. Tobacco farmers cultivating, irrigating, laying by, side-dressing. Some flue tobacco topping has begun. Hay baling continues weather permitting.

WASHINGTON: Days suitable for fieldwork 5.6. Topsoil 30% short, 64% adequate, 6% surplus; subsoil 30% short, 70% adequate. Cool, wet weather prevailed. Foot rot was evident on some dryland winter wheat. Barley stripe rust was found, considered a minor problem. Winter wheat harvest is expected to start next week in early areas. Winter wheat, dryland 2% poor, 6% fair, 58% good, 34% excellent; irrigated, 75% good, 25% excellent. Barley, dryland 17% poor, 28% fair, 35% good, 20% excellent; irrigated, 100% good. Hay, other roughage supplies, 2% short, 78% adequate, 20% surplus. Range, pasture feed 24% fair, 55% good, 21% excellent. As cool, wet conditions prevailed, hay harvest slowed, suffered quality loss, although range and pasture improved. Spring wheat 60% headed, 76% 1995, 88% avg. Alfalfa first cutting 93%, 93% 1995, 95% avg.; second cutting 48%, 27% 1995, 28% avg. Cherry harvest came to a peak, a light crop with high quality was expected. Hand thinning of apples began. Sweet onion harvest began. Strawberry harvest continued. Asparagus harvest was completed. No late blight was found on potatoes where harvest is expected to begin next week.

WEST VIRGINIA: Days suitable for fieldwork 5.4 Topsoil 3% short, 85% adequate, 12% surplus. Wheat 19% poor, 54% fair, 27% good; 98% headed, 80% 1995, 96% avg.; 1% harvested, 0% 1995. Hay 10% poor, 32% fair, 54% good, 4% excellent; first cutting 65%, 62% 1995, 79% avg.; 2nd cutting 1%. Intended Acreage Prepared for spring planting 99%, 100% 1995. Corn 20% fair, 71% good, 9% excellent; 95% planted, 100% 1995, 100% avg. Oats 23% fair, 75% good, 2% excellent; 58% headed. Soybeans 1% fair, 85% good, 14% excellent; planted 90%, 87% 1995. Tobacco 11% poor, 35% fair, 54% good; transplanted 99%, 95% 1995, 99% avg. Cattle 19% fair, 78% good, 3% excellent. Sheep 12% fair, 85% good, 3% excellent. Apples 5% very poor, 5% poor, 85% fair, 5% good. Peaches 6% poor, 88% fair, 6% good. Activities: Planting, side dressing corn, planting soybeans, cutting and baling hay, transplanting tobacco, preparing for wheat harvest, working livestock and equipment maintenance.

WISCONSIN: Days suitable for fieldwork 4.7. Soil 4% short, 57% adequate, 39% surplus. Finally some good weather came to stimulate the growth of crops statewide. With the excess moisture levels, corn plantings varied in growth with a statewide average height of 12 in. (3 in. taller than in 1993), compared with 26 in. 1995; 25 in. Reporters commented on corn growing faster from the warmer weather. However, some corn plantings still looked yellow. Most field activities were haying and cultivating or spraying. Hay harvested was only 65% complete, compared with 92% 1995, 82% avg. After the heavy rains, some hayfields were lodged down, very difficult to bale. Later harvested first crop hay is expected to be very poor quality. Soybean plantings were 95% in the ground, 100%% 1995. Emerged soybeans in the southwest district averaged an estimated 6 in. height. Soybeans 3% very poor, 11% poor, 37% fair, 41% good, 8% excellent. Oats, barley were starting to head out statewide. Harvesting of early planted peas was going on in the central, south -central districts. Winter wheat was reported heading in the central districts. Winter wheat 1% very poor, 10% poor, 36% fair, 41% good, 12% excellent. Strawberry fields were being picked in the southern half of the State. In certain parts of the State, tobacco planting was being rushed. Pasture feed 1% very poor, 2% poor, 14% fair, 65% good, 18% excellent.

WYOMING: Days suitable for fieldwork 6.8. Topsoil 60% adequate or surplus. Subsoil 63% adequate or surplus. Crops mostly good condition. Winter wheat 100% headed, 90% 1995, 91% avg.; 46% turning color, 11% 1995, 26% avg.; 46% fair, 54% good. Barley 62% headed, 45% 1995, 59% avg.; 2% turning color, 14% 1995, 8% avg. Oats 38% headed, 9% 1995, 32% avg.; 7% turning color, 1% 1995, 2 % avg. Spring wheat 41% headed, 7% 1995, 41% avg.; 5% turning color, 0% 1995, 7% avg. Sugar beets 93% thinned, 81% 1995, 89% avg. Dry beans 94% emerged, 83% 1995, 87% avg. Alfalfa 1st cutting 47%, 28% 1995, 44% avg. Other hay 16% harvested, 8% 1995, 15% avg. Range, pasture feed 21% fair, 62% good, 17% excellent. Stock water 96% adequate. Livestock good to excellent.

International Weather and Crop Summary

June 23 - 29, 1996

HIGHLIGHTS

FSU-WESTERN: Unfavorably hot, dry weather covered parts of Ukraine and Russia.

FSU-NEWLANDS: Generous rains benefited spring grains in Western Siberia, Russia, while a drying trend continued in Kazakhstan.

EUROPE: Unseasonably cool weather prevailed over most of the continent, slowing crop development.

EASTERN ASIA: Widespread rain continued to favor summer crops and increase irrigation supplies across the major growing areas of China, North and South Korea, and Japan.

CANADA: Cool, wet weather kept the Prairies well watered but caused grains and oilseeds to be further behind in development.

SOUTHEAST ASIA: Drier weather prevailed in Thailand as seasonable showers maintained moisture supplies in Vietnam and the Philippines.

SOUTH AMERICA: In Argentina, wheat planting continued, but topsoils are becoming dry. Showers continued to favor Brazilian winter wheat.

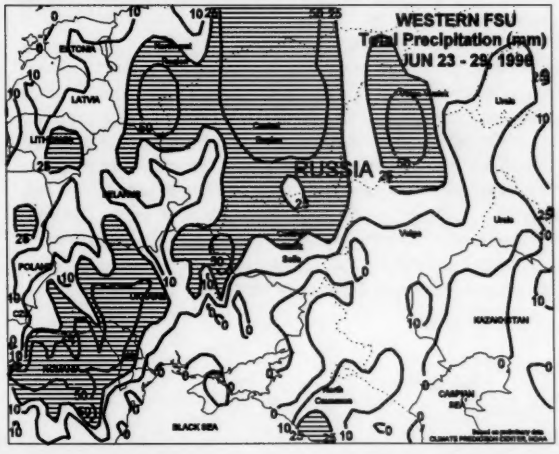
SOUTH ASIA: Showers swept across major rice and cotton areas, but soybean and coarse grain areas of central India awaited rains for planting to begin.

AUSTRALIA: Beneficial rain continued in the western and southeastern winter grain belts.

MEXICO: Widespread rain benefited vegetative corn in the main corn belt and helped to ease dryness in north-central Mexico.

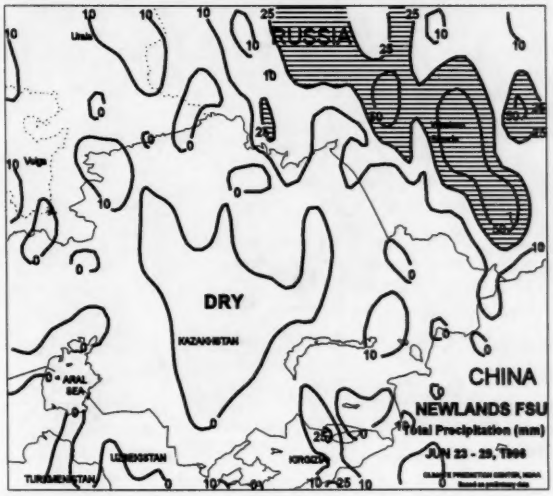
FSU-WESTERN

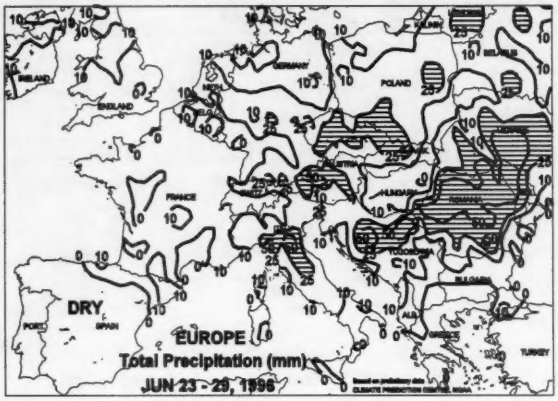
Widespread showers and cool weather favored crop development in the west and north, while hot, dry weather worsened conditions for crops in the south and east. In Russia, hot, dry weather prevailed over the North Caucasus and most of the Volga Valley. Highest weekly temperatures in these areas ranged from 32 to 39 degrees C, increasing heat stress on spring grains, likely advancing through reproduction. Farther north, cool, wet weather prevailed over northern Russia (Northwest Region, northern Central Black Soils Region, Central Region, and Volga Vyatsk), benefiting winter grains in the filling stage and spring grains in the jointing stage. Precipitation amounts in these areas ranged from 17 to 50 mm, with locally heavier amounts in excess of 50 mm. Russia's hot, dry weather spread westward into eastern and southern Ukraine, stressing spring grain development in these areas as well. However, cool weather and widespread rain (10-55 mm) benefited crops in western and northern Ukraine during the week. Elsewhere, widespread light to moderate showers (10-33 mm) over Belarus and the Baltics were accompanied by weekly temperatures that averaged below-normal, favoring crop development.



FSU-NEW LANDS

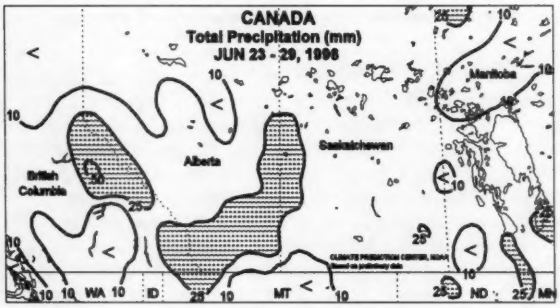
In Russia, spring grains were likely in or nearing the heading stage in the southern Urals, and were jointing over the remainder of the region. Unfavorably hot, dry weather prevailed over the southern and eastern Urals, where highest weekly temperatures ranged from 31 to 39 degrees C. Farther east, light to moderate showers (10-50 mm, with locally heavier amounts in excess of 50 mm) favored spring grain development in Western Siberia and Eastern Siberia. In Kazakhstan, spring grains were mostly in the jointing stage. Unseasonably warm weather over most spring grain areas was accompanied by little, if any, precipitation (generally less than 7 mm). Soil moisture reserves are limited throughout Kazakhstan, necessitating timely rains in upcoming weeks to prevent crop conditions from deteriorating. Weekly temperatures averaged 2 to 4 degrees C above normal over Kazakhstan.





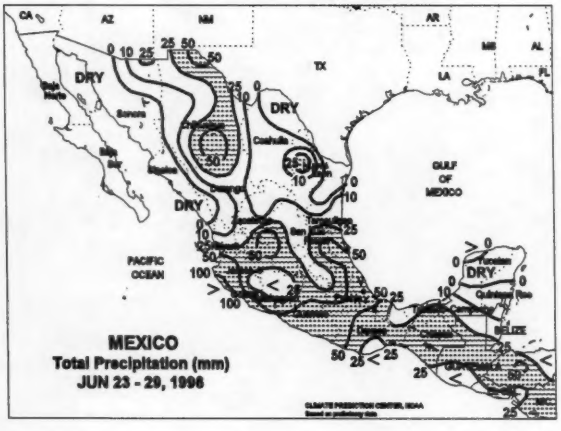
EUROPE

Unseasonably cool weather prevailed over most of the continent, slowing crop development. The exception was Romania and Bulgaria, where weekly temperatures averaged slightly above normal. Scattered showers (less than 10 mm) fell over eastern England, northern France, and northern Germany, where cumulative precipitation since the beginning of April has continued to fall below normal. Farther east, beneficial rain (10-25 mm) fell over crop areas in Poland and extended south into the Czech Republic, Slovakia, and Austria. Mostly dry weather over Hungary followed last week's generous rains. In Romania, late-week showers and thunderstorms, some locally severe, produced moderate to heavy rain (25-50 mm, with local amounts in excess of 50 mm). Overall, the rain was beneficial for spring and summer crop development, but some lodging of maturing winter wheat may have occurred. In Italy, continued light to moderate showers over central and northern areas slowed winter wheat harvesting and increased the potential for disease.



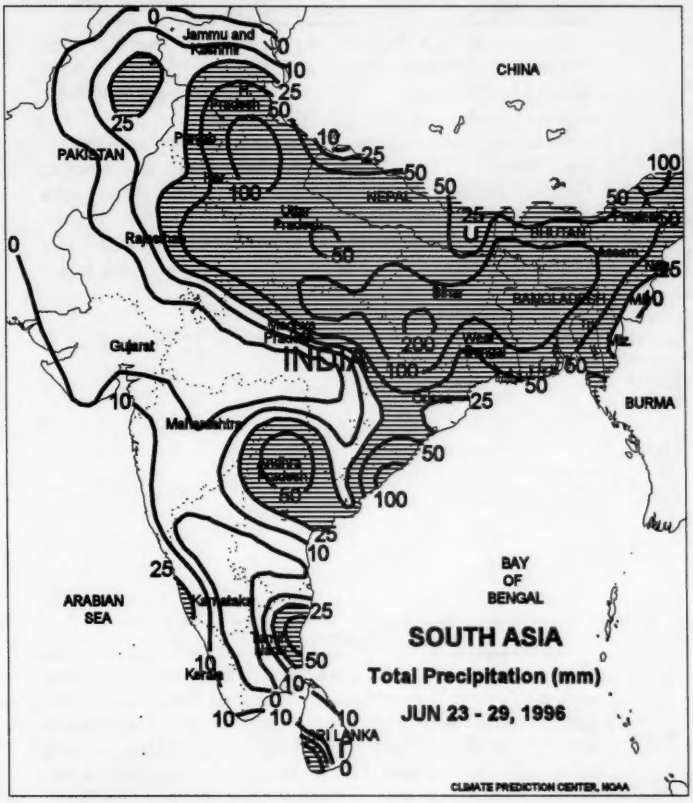
CANADA

Cool, wet weather continued across the Prairies. In the west, moderate to heavy rain (25 mm or greater) covered a broad area from southern Alberta to northwestern Saskatchewan, increasing moisture reserves for vegetative grains and oilseeds. Rainfall in most other crop areas ranged from 10 to 25 mm. Temperatures averaged near normal in the east but were 2 to 4 degrees C below normal in western Saskatchewan and Alberta, causing crops to be further behind in development. Temperatures fell below 5 degrees C at many locations but no freezing temperatures were reported. Farther east, moderate showers (10-33mm) in Ontario and Quebec maintained adequate to abundant moisture levels for development of winter wheat and newly planted corn and soybeans. Temperatures averaged near normal in Ontario's crop areas and about 2 degrees C below normal in Quebec.



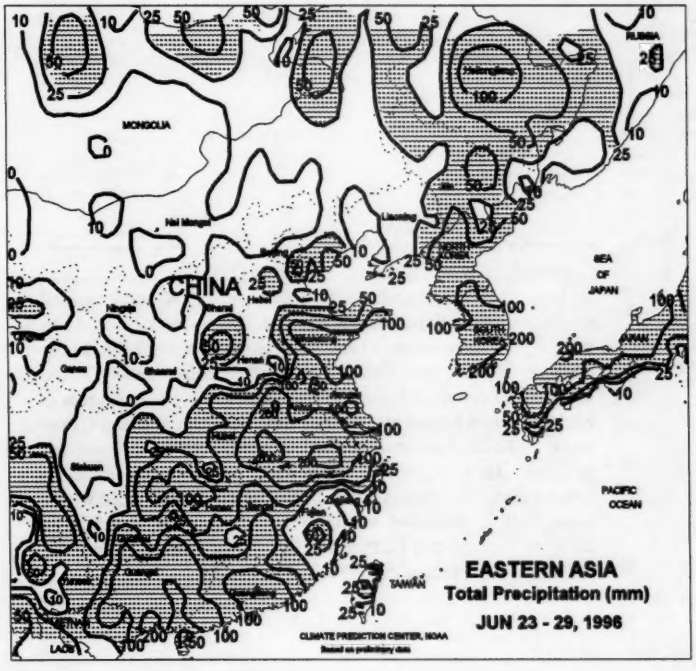
MEXICO

For two consecutive weeks, light to moderate showers (10-40 mm, with isolated amounts greater than 100 mm) covered the southern Plateau corn belt, greatly aiding germinating corn. While this rain has been timely, consistent rainfall is needed during the next several weeks to ensure adequate development. Across north-central Mexico (Chihuahua, Durango, Coahuila, and Nuevo Leon), light to moderate rain (10-30 mm, with isolated amounts greater than 60 mm) aided pasture growth and started to slowly ease the long-term moisture deficit. On June 29, Hurricane Boris hit the southern Mexico Coast near Acapulco, Guerrero with sustained winds of 80 knots (90 mph). The storm produced locally heavy rain and flooding along the coast and coastal highlands. The remnants of Boris helped produce beneficial rainfall across the western corn belt.



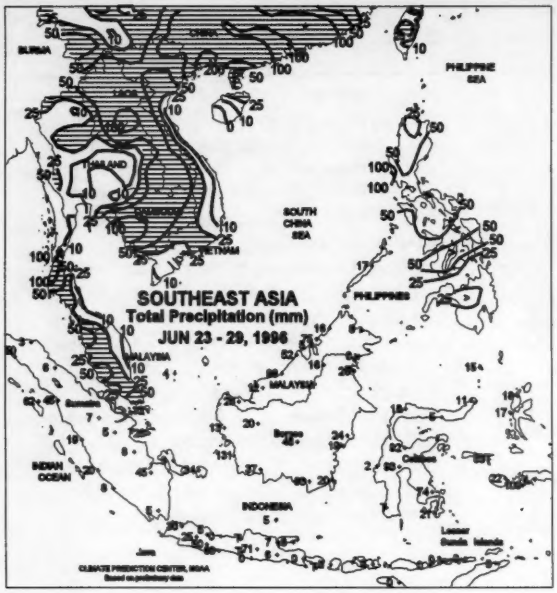
SOUTH ASIA

Moderate to heavy rain (25-100 mm or greater) spanned major rice areas of northern and eastern India, increasing moisture for planting and early crop development but causing some flooding. It was the second consecutive week of unseasonable rain in India's northern cotton areas, possibly causing some flooding and washout of early plantings. In contrast, hot, dry weather covered a broad area of central and western India. In Gujarat, a primary groundnut and cotton producer, the dryness was welcomed following last week's excessive rains. Farther inland, primary soybean and coarse grain areas of Madhya Pradesh and Maharashtra needed additional rain before planting could begin. This region's late start of the rainy season resembles that of last season, when abundant mid-summer rains compensated for late plantings.



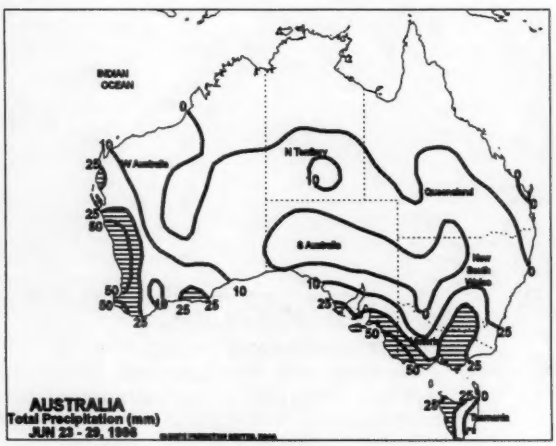
EASTERN ASIA

Widespread rain covered the major growing areas of the region. In the North China Plain, timely rainfall (20-75 mm) aided vegetative corn, cotton, and soybeans. Heavier amounts (greater than 100 mm) fell in Shandong, causing some local flooding. In Manchuria, light to moderate rain (7-15 mm) fell across eastern Nei Mongol and Liaoning, with moderate to isolated heavy rain (30-100 mm) reported in Heilongjiang and Jilin. This rain, besides favoring vegetative summer crops, aided reproductive spring wheat. Widespread showers (25-80 mm) covered central and southern China, maintaining moisture supplies for single and late double-crop rice, but slowing early double-crop rice harvesting. Heavy showers (100-250 mm) fell across the lower Yangtze Valley (Zhejiang, southern Anhui, and Jiangsu), Guangxi in China, southern Japan, and South Korea, causing flooding. Moderate showers (30-75 mm) covered North Korea and lesser amounts (less than 25 mm) were reported over northern Japan.



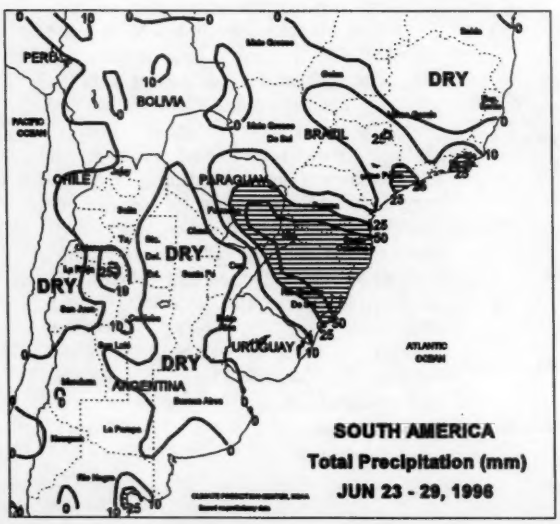
SOUTHEAST ASIA

Drier weather (less than 25 mm) prevailed in Thailand, where irrigation supplies were adequate for main-season rice. Moderate to isolated heavy showers (40-200 mm) fell across northern Vietnam, producing some local flooding. Widespread showers (30-125 mm) covered the Philippines, maintaining moisture supplies for main-season crops. Showers (50-90 mm) benefited oil palm across western peninsula Malaysia, but more rain was needed across the east since only lighter showers (less than 20 mm) were reported. In Java, scattered showers (10-50 mm) helped to increase moisture supplies for second-season rice planting as main-season rice harvesting neared completion.



AUSTRALIA

Widespread showers (10-25 mm or more) continued for the second week in the western and southeastern winter grain belts. Moisture the past few weeks has been highly beneficial for crop germination and establishment. Temperatures averaged near to slightly above normal, aiding early crop development. Elsewhere, rainfall was light (10 mm or less) in winter grain areas of Queensland and northern New South Wales. Dry weather along Queensland's coast favored the start of the sugar harvest. In New Zealand, moderate to heavy rain (15-50 mm) covered the main pasture areas.



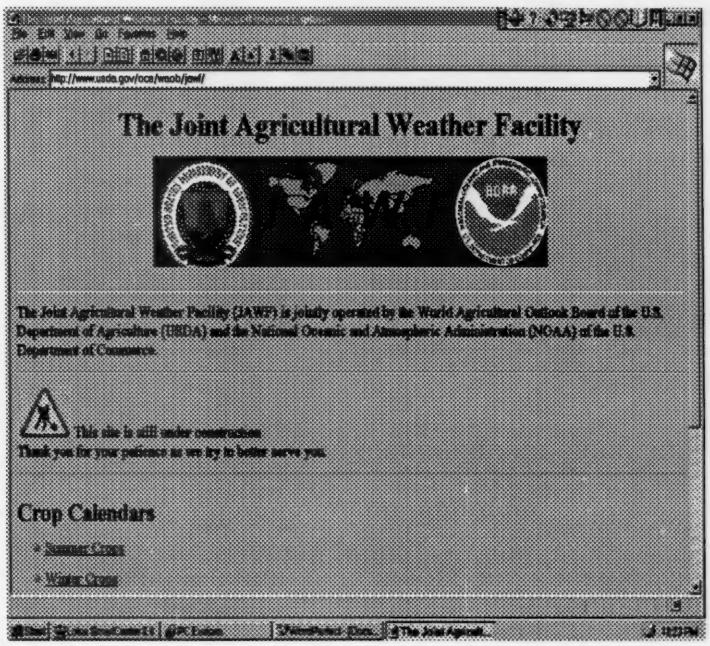
SOUTH AMERICA

In southern Brazil, moderate to heavy rain (25-80 mm) covered southern Parana, Santa Catarina, and Rio Grande do Sul, aiding vegetative winter wheat. Lesser amounts (5-18 mm) fell across northern Parana, Sao Paulo, and southwestern Minas Gerais, maintaining coffee and citrus trees. Cool weather (2-4 degrees C below normal) prevailed across Argentina and southern Brazil for the week. The cool air mass moved into southern Brazil over the weekend, but no significant frosts were reported in the Brazilian coffee regions. In central Argentina, mostly dry weather aided winter wheat planting. However, topsoils were becoming dry, especially in the west (Cordoba and La Pampa). Reports indicate, as of June 21, that about 45 percent of the wheat crop has been planted.

JAWF Goes Online

The NOAA/USDA Joint Agricultural Weather Facility (JAWF) now has a site on the World Wide Web. We invite our readers to visit the home page at http://www.usda.gov/oce/waob/jawf.

A large portion of the *Weekly Weather and Crop Bulletin* can be accessed, including the entire International Weather and Crop Summary (with the weekly precipitation maps), the Crop Progress and Condition tables, the National Agricultural Summary, the weekly weather Highlights, the pan evaporation and growing degree day maps, and the color Palmer Drought Index map. In addition, the complete State Agricultural Summaries, as produced by the USDA's National Agricultural Statistics Service (NASS) State Statistical Offices, are provided. These generally provide more detailed information than the summaries published in the *Bulletin*.



Crop calendars are also accessible from the home page. You can view monthly world maps showing usual planting and harvesting periods for both winter and summer crops. USDA is also planning to make available their *Major World Crop Areas and Climatic Profiles* book.

Many other kinds of information and data can now be easily accessed from our home page using the provided links to NOAA and USDA. Specific links include World Agricultural Outlook Board (WAOB), the Climate Prediction Center (CPC), NASS, and USDA.

From the WAOB link, you can access the current and latest monthly World Agricultural Supply and Demand Estimate reports. Select "Remote Sensing" to obtain USDA's Foreign Agricultural Service data for selected countries.

From CPC's home page, select "Predictions" to view the latest 6 to 10 day, monthly, and long-lead outlooks. Under "Analysis and Monitoring," check out the latest ENSO advisories, maps of weekly world regional precipitation and temperature ("Weekly Regional Analyses"), weekly and monthly global highlights, and current and past Climate Diagnostic Bulletins. Find monthly and seasonal State rankings of precipitation and temperature, as well as drought index values by U.S. Climate Division, under "Climate Data/Indices." This category also includes U.S. and foreign tabular weather data, weekly and monthly. Under "Data," you can find current and historical values of the Southern Oscillation Index, sea surface temperatures, and other climate-monitoring indicators. Select "Other Sources" for links to other meteorological sites, including the National Climatic Data Center, which now has a wealth of online climate data. CLIMVIS, for example, enables you to view a graph of the Palmer Drought Index for any Climate Division going back a century.

The link to NASS provides abundant information on U.S. agriculture, including access to U.S. crop statistics, the State Agricultural Summaries, and various U.S. maps of soil moisture, crop condition, and other parameters, depending on the season.

The USDA link provides access to USDA's home page.

The above offers just a sample of the weather, climate, and agricultural information available from our new home page. Give it a try and let us know what you think.

--Douglas Le Comte

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